RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

El Paso Field Division
10737 Gateway Blvd. West, Suite 350
El Paso, TX 79935

U. S Dept. of the Interior
Bureau of Reclamation

RECLAMATION

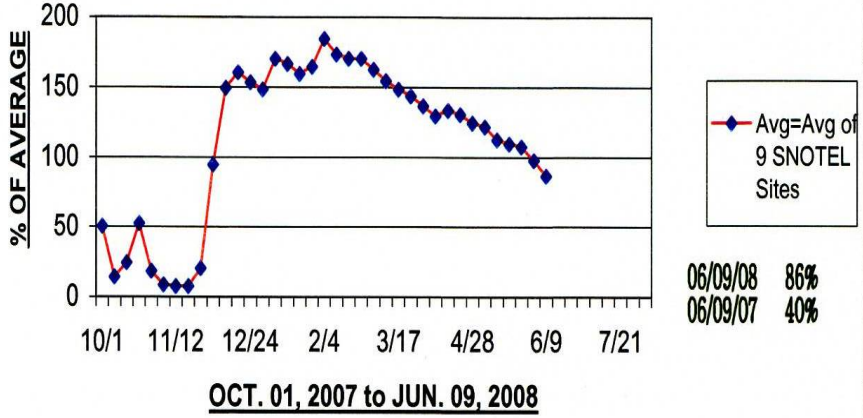
Managing Water in the West

RIO GRANDE PROJECT

CURRENT HYDROLOGIC CONDITIONS OF UPPER RIO GRANDE BASIN

U. S Dept. of the Interior
Bureau of Reclamation

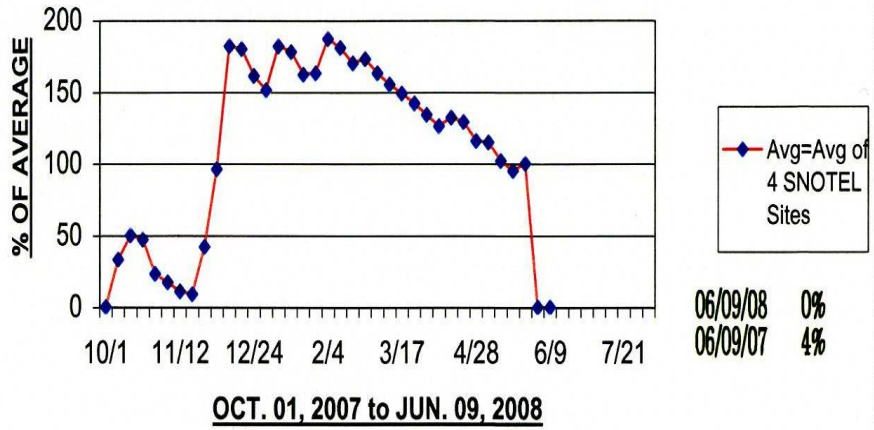
% OF AVG. SNOW WATER EQUIVALENT vs TIME
Upper Rio Grande Basin (Basin Avg.)



06/09/08 86%
06/09/07 40%

OCT. 01, 2007 to JUN. 09, 2008

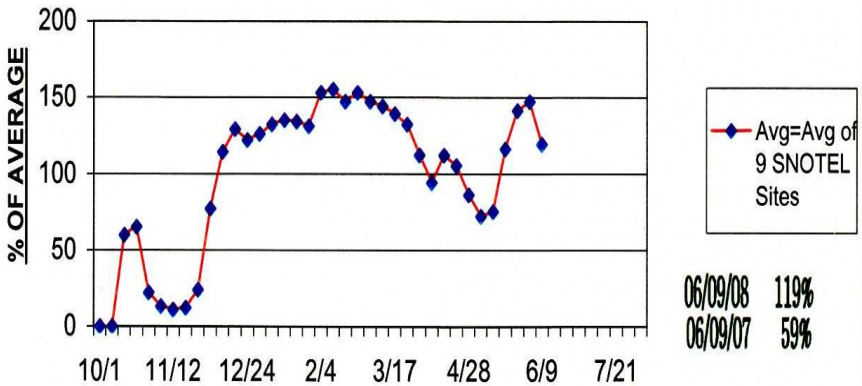
% OF AVG. SNOW WATER EQUIVALENT vs TIME
Rio Chama Basin (Basin Avg.)



06/09/08 0%
06/09/07 4%

OCT. 01, 2007 to JUN. 09, 2008

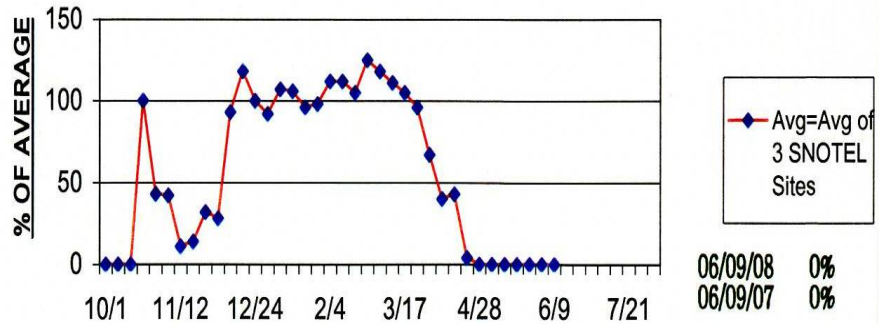
% OF AVG. SNOW WATER EQUIVALENT vs TIME
Sangre de Cristo Mtn Basins (Basin Avg.)



06/09/08 119%
06/09/07 59%

OCT. 01, 2007 to JUN. 09, 2008

% OF AVG. SNOW WATER EQUIVALENT vs TIME
Jemez River Basin (Basin Avg.)

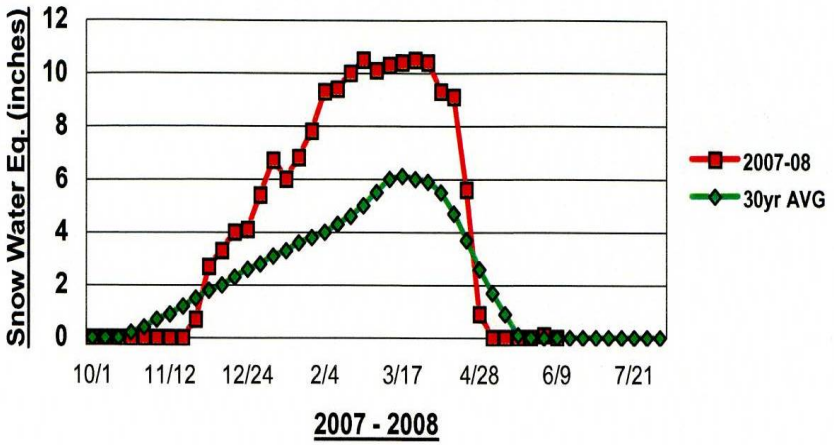


06/09/08 0%
06/09/07 0%

OCT. 01, 2007 to JUN. 09, 2008

UPPER RIO GRANDE SNOTEL

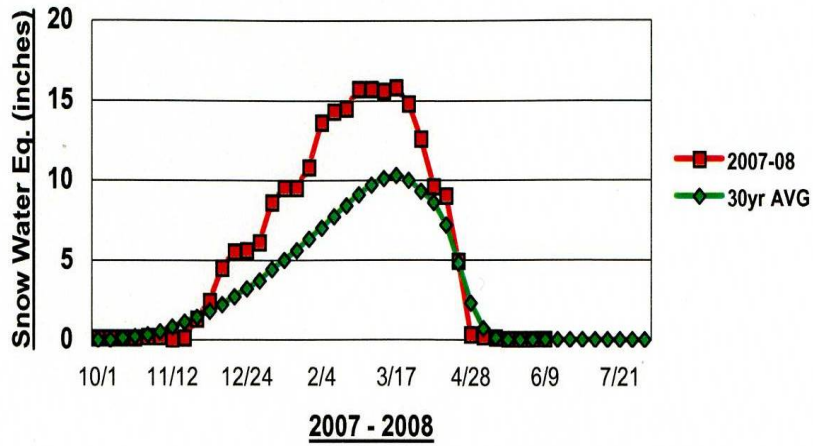
Elevation: 9,400 FT



2007 - 2008

CHAMITA SNOTEL

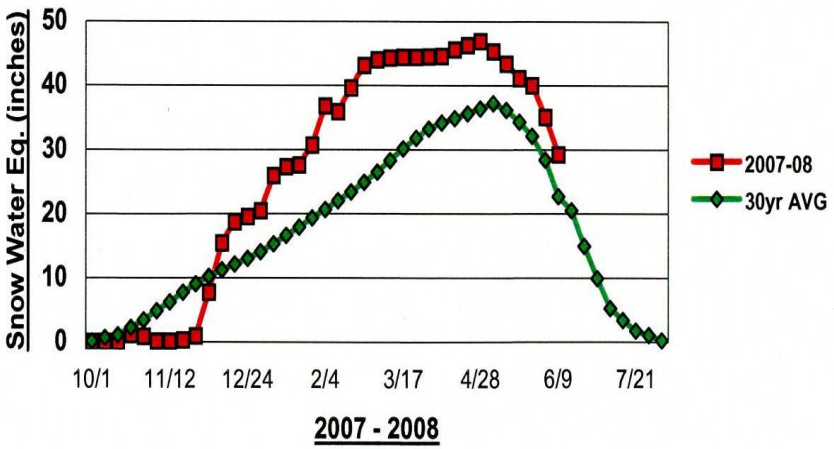
Elevation: 8,400 FT



2007 - 2008

WOLF CREEK SUMMIT SNOTEL

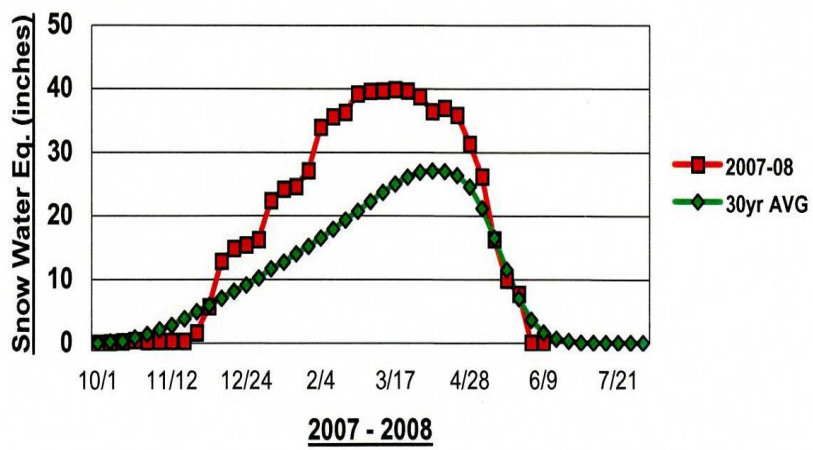
Elevation: 11,000 FT



2007 - 2008

CUMBRES TRESTLE SNOTEL

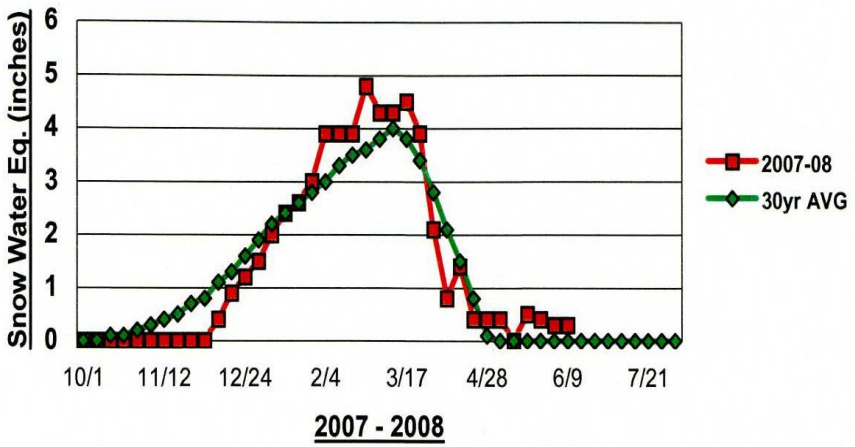
Elevation: 10,040 FT



2007 - 2008

ELK CABIN SNOTEL

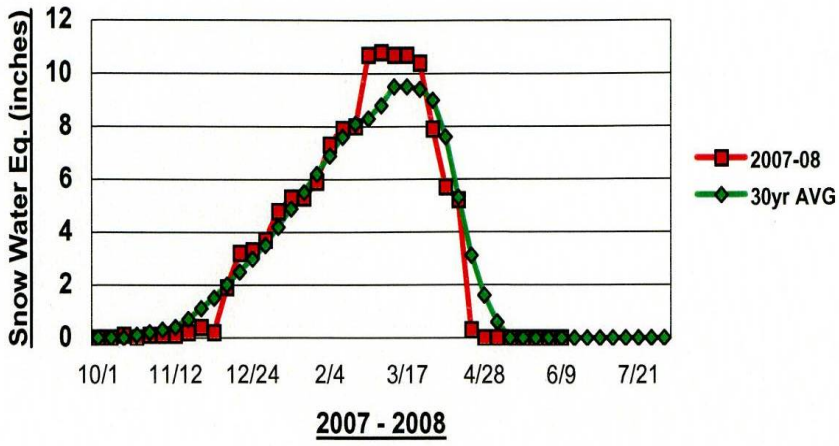
Elevation: 8,210 FT



2007 - 2008

SENORITA DIVIDE #2 SNOTEL

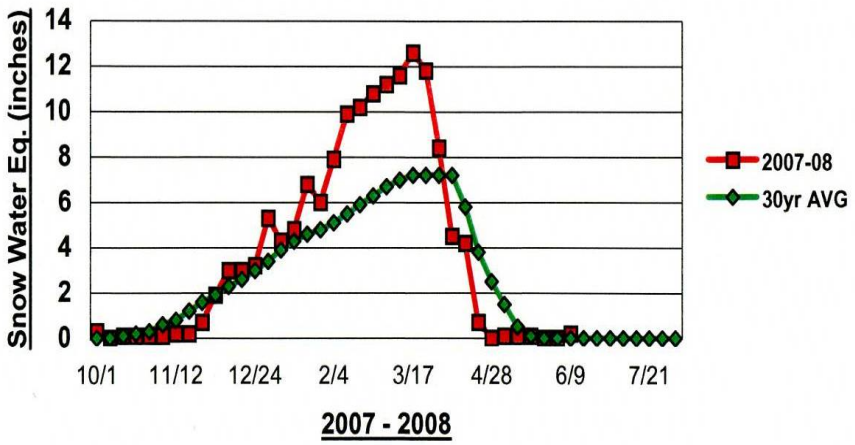
Elevation: 8,600 FT



2007 - 2008

RED RIVER PASS #2 SNOTEL

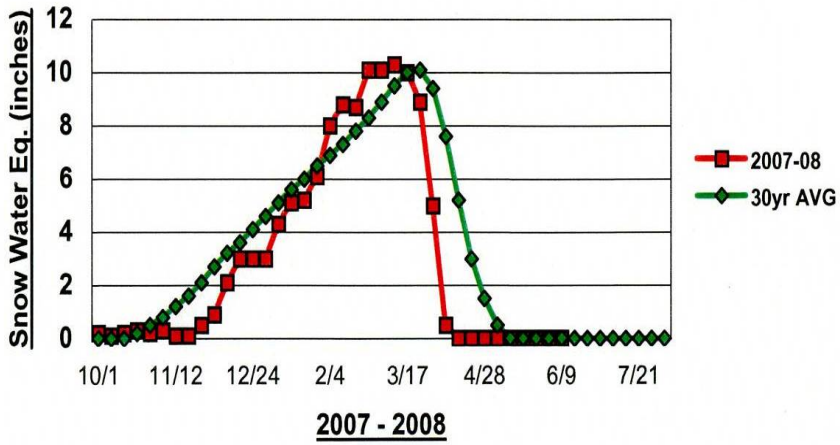
Elevation: 9,850 FT



2007 - 2008

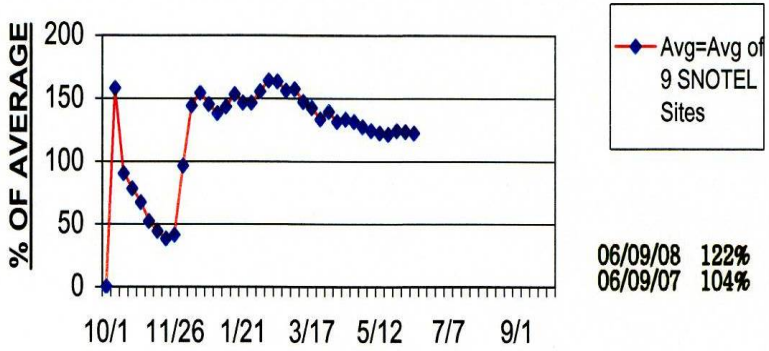
QUEMAZON SNOTEL

Elevation: 9,500 FT



2007 - 2008

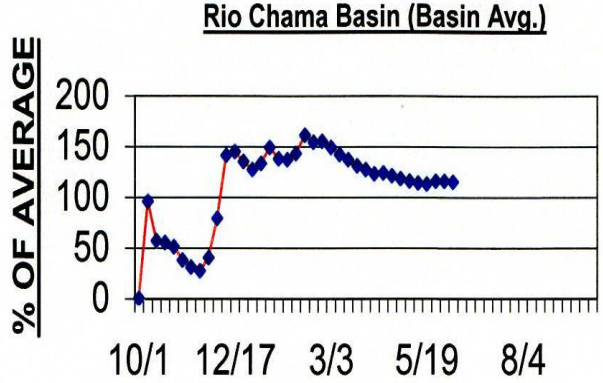
% OF TOTAL PRECIPITATION vs TIME
Upper Rio Grande Basin (Basin Avg.)



06/09/08 122%
06/09/07 104%

OCT. 01, 2007 to JUN. 09, 2008

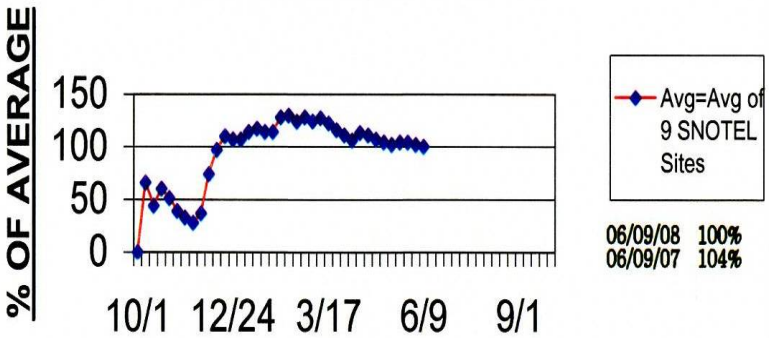
% OF AVG. TOTAL PRECIPITATION vs TIME
Rio Chama Basin (Basin Avg.)



06/09/08 115%
06/09/07 83%

OCT. 01, 2007 to JUN. 09, 2008

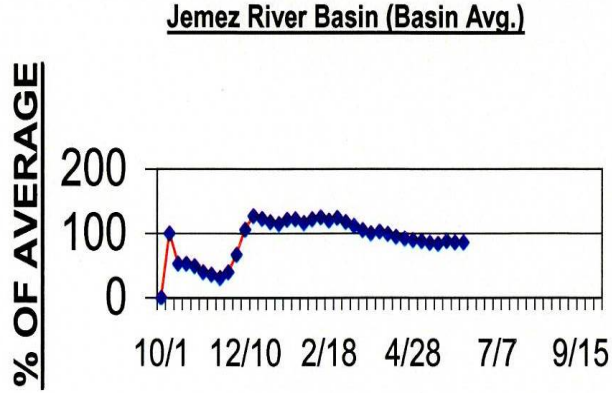
% OF AVG. TOTAL PRECIPITATION vs TIME
Sangre de Cristo Mtn Basins (Basin Avg.)



06/09/08 100%
06/09/07 104%

OCT. 01, 2007 to JUN. 09, 2008

% OF AVG. TOTAL PRECIPITATION vs TIME
Jemez River Basin (Basin Avg.)



06/09/08 86%
06/09/07 98%

OCT. 01, 2007 to JUN. 09, 2008

SPRING RUNOFF FORECASTS

2008

RIO GRANDE BASIN

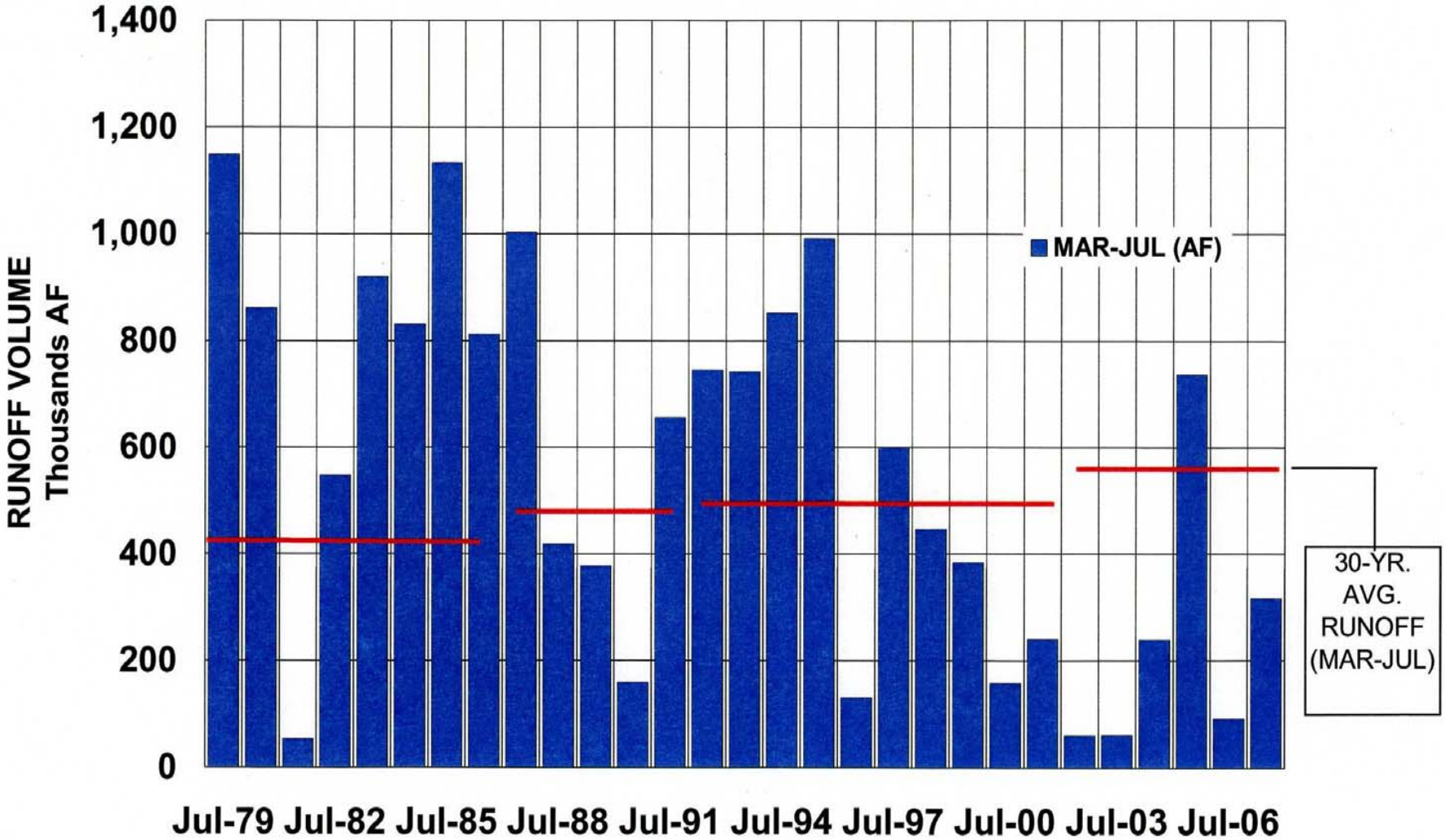
(ACRE-FEET)

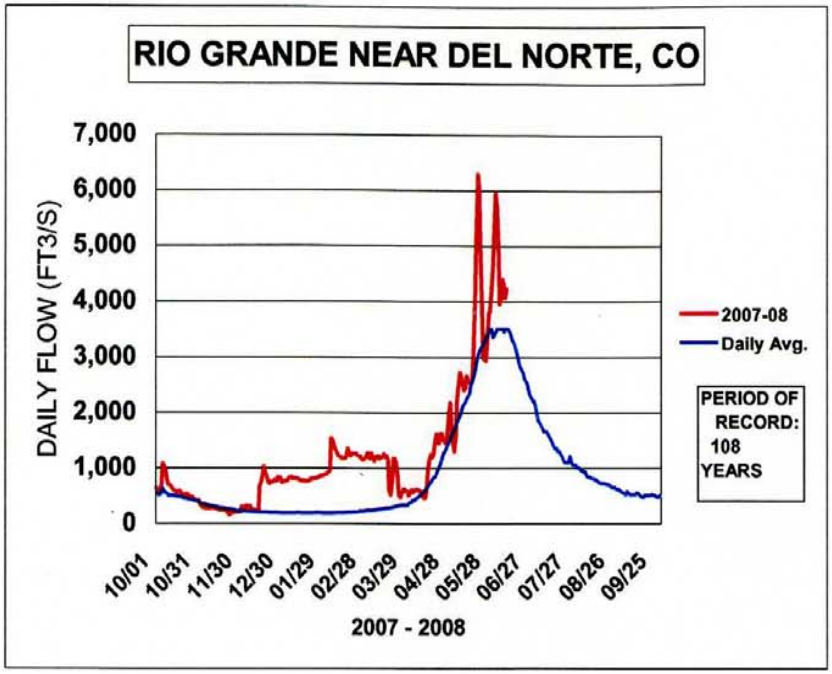
FORECAST POINT	Rio Grande nr Del Norte	Rio Chama at El Vado Reservoir	Rio Grande at Otowi Bridge	Jemez River at Jemez Canyon Reservoir	Rio Grande at San Marcial
FORECAST PERIOD	APR-SEP	MAR-JUL	MAR-JUL	MAR-JUL	MAR-JUL
30-YEAR AVERAGE RUNOFF *	531,000	237,000	757,000	45,000	**573,000**
JANUARY 1 FORECAST	**690,000** 130%	**295,000** 124%	**940,000** 124%	**36,000** 80%	**750,000** 131%
FEBRUARY 1 FORECAST	**790,000** 149%	**390,000** 165%	**1,300,000** 172%	**50,000** 111%	**1,050,000** 183%
MARCH 1 FORECAST	**850,000** 160%	**400,000** 169%	**1,380,000** 182%	**52,000** 116%	**1,150,000** 201%
APRIL 1 FORECAST	**745,000** 140%	**375,000** 158%	**1,170,000** 155%	**41,000** 91%	**980,000** 171%
MAY 1 FORECAST **	**680,000** 128%	**330,000** 139%	**1,040,000** 137%	**36,000** 80%	**695,000** 121%
JUNE 1 FORECAST	**655,000** 123%	**305,000** 129%	**965,000** 127%	**33,000** 73%	**665,000** 116%
	70% Exceedance: (drier)		**920,000** 122%		**615,000** 107%
	90% Exceedance: (minimum - driest)		**860,000** 114%		**550,000** 96%
JUNE 1, 2007	**450,000** 85%	**178,000** 75%	**530,000** 70%	**38,000** 84%	**410,000** 72%

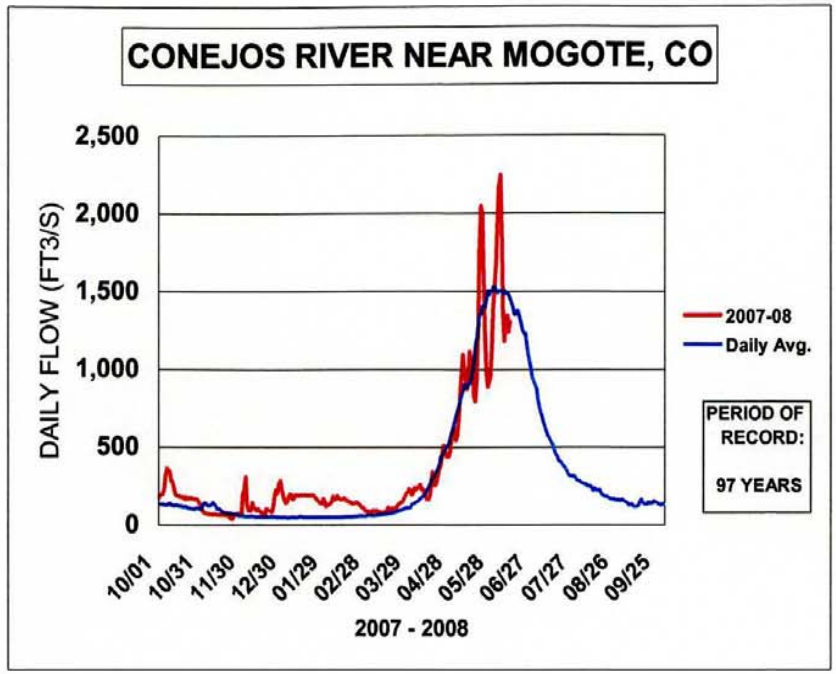
* based on 1971-2000 runoff data.

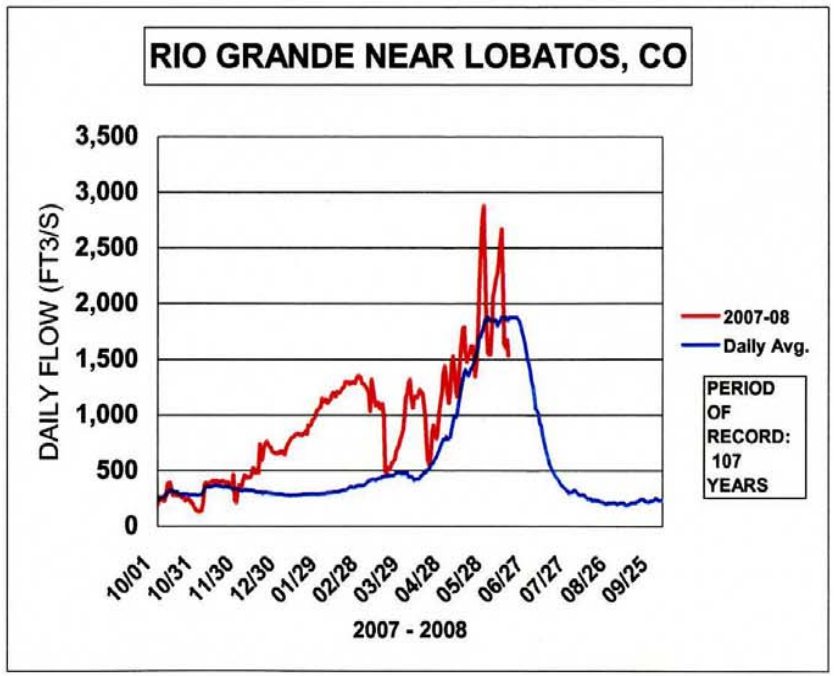
** last official forecast for 2008 spring runoff.

HISTORICAL RUNOFF - SAN MARCIAL
1979 - 2007

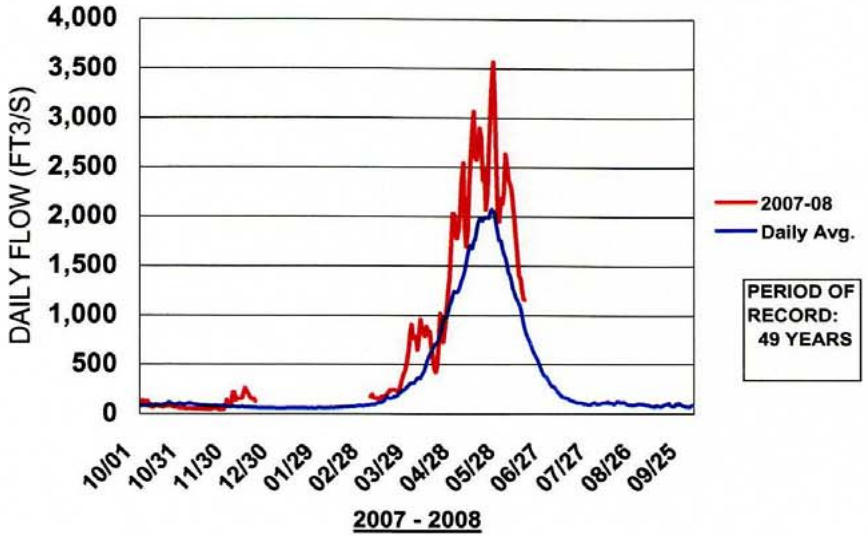



RIO GRANDE NEAR DEL NORTE, CO
DAILY FLOW (FT3/S)
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 108 YEARS

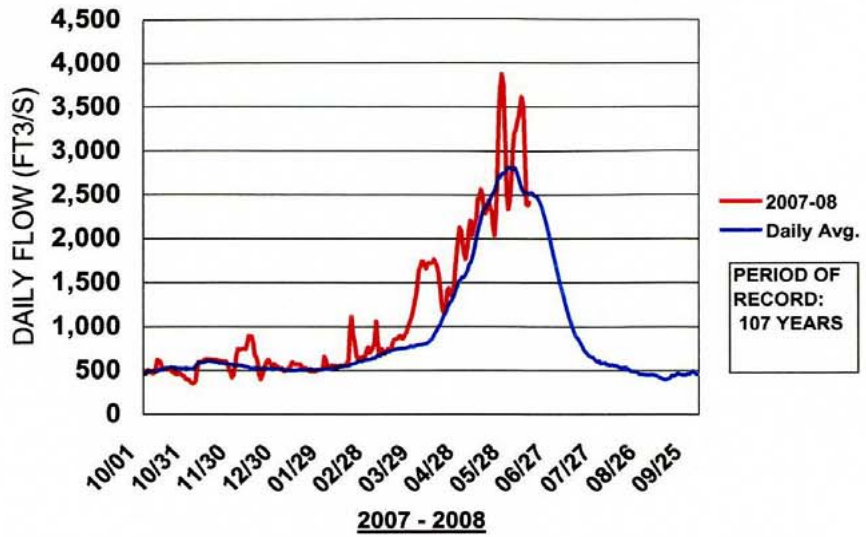

CONEJOS RIVER NEAR MOGOTE, CO
DAILY FLOW (FT3/S)
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 97 YEARS


RIO GRANDE NEAR LOBATOS, CO
DAILY FLOW (FT3/S)
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 107 YEARS

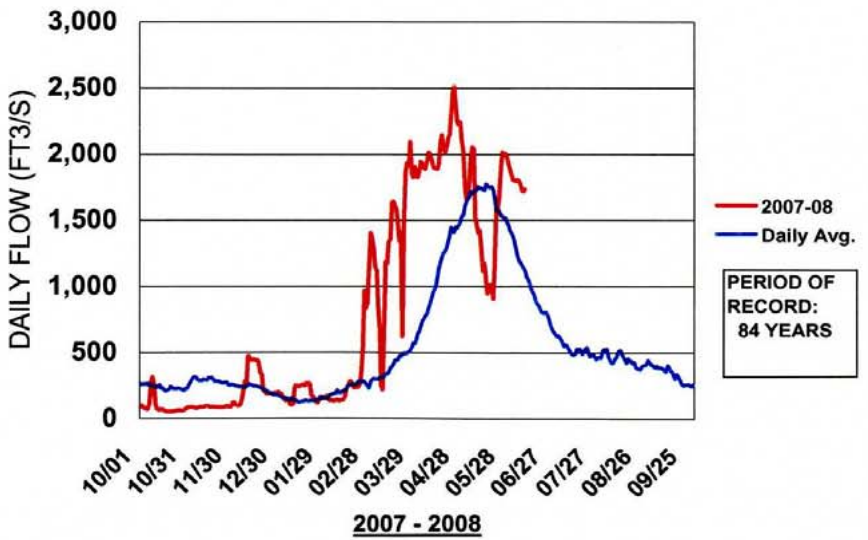
RIO CHAMA NEAR LA PUENTE, NM



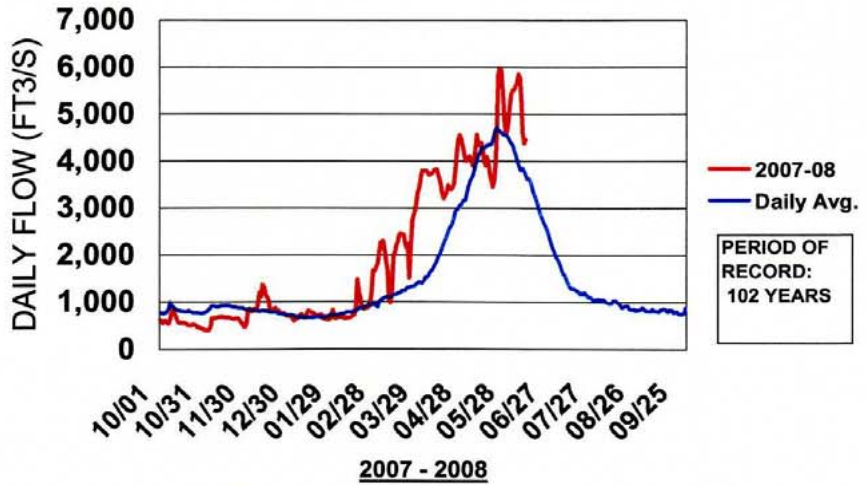
RIO GRANDE AT EMBUDO, NM



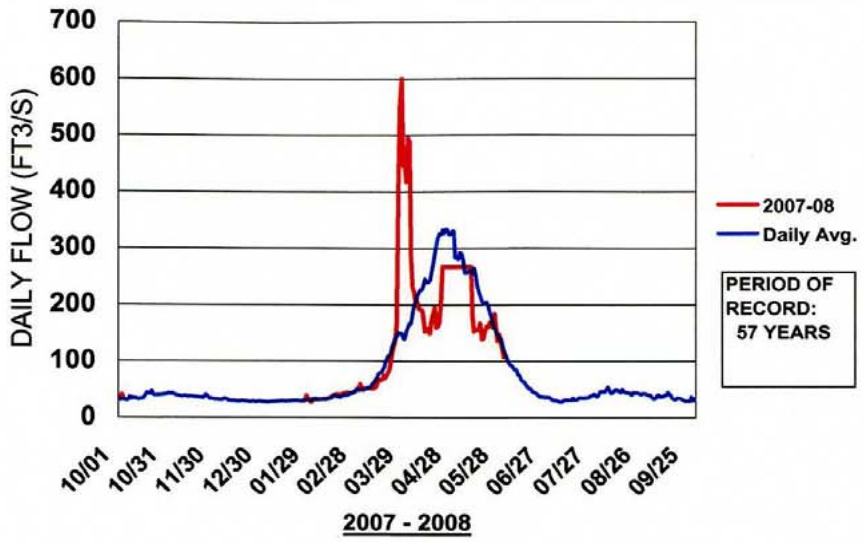
RIO CHAMA NEAR CHAMITA, NM



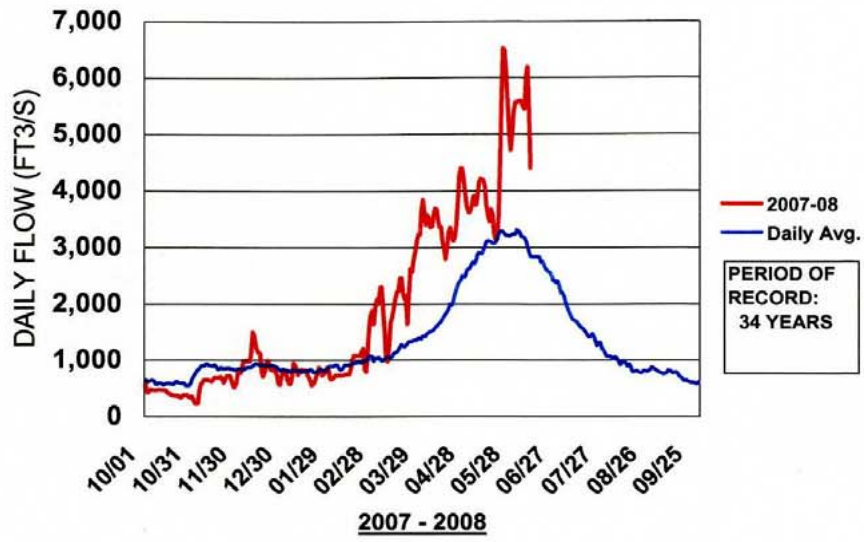
RIO GRANDE AT OTOWI BRIDGE, NM



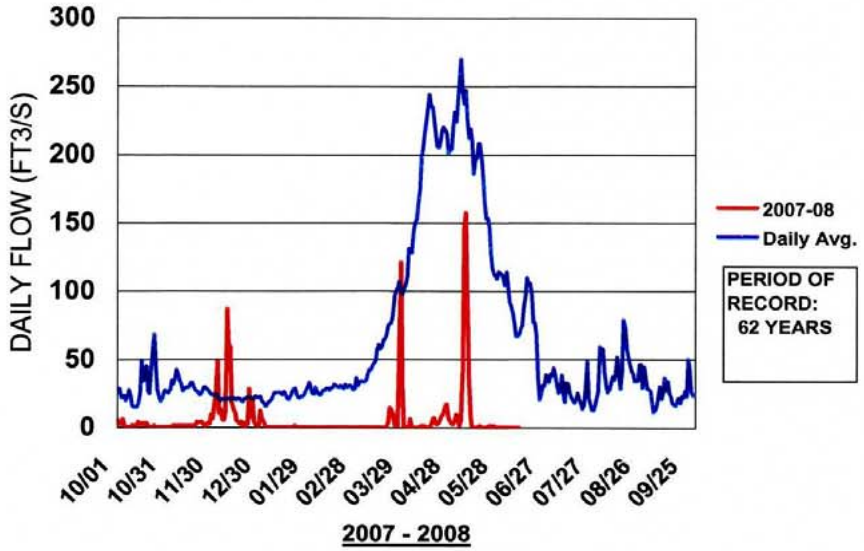
JEMEZ RIVER NEAR JEMEZ, NM



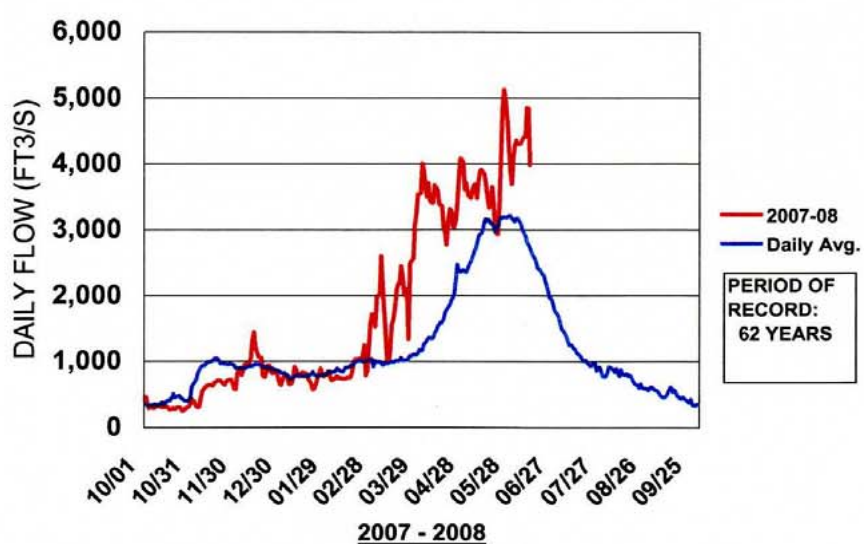
RIO GRANDE BLW COCHITI DAM, NM



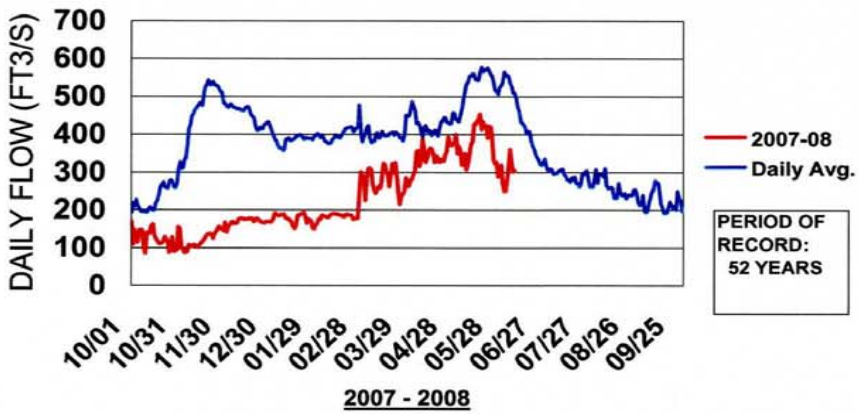
JEMEZ RIVER BELOW JEMEZ CANYON DAM, NM



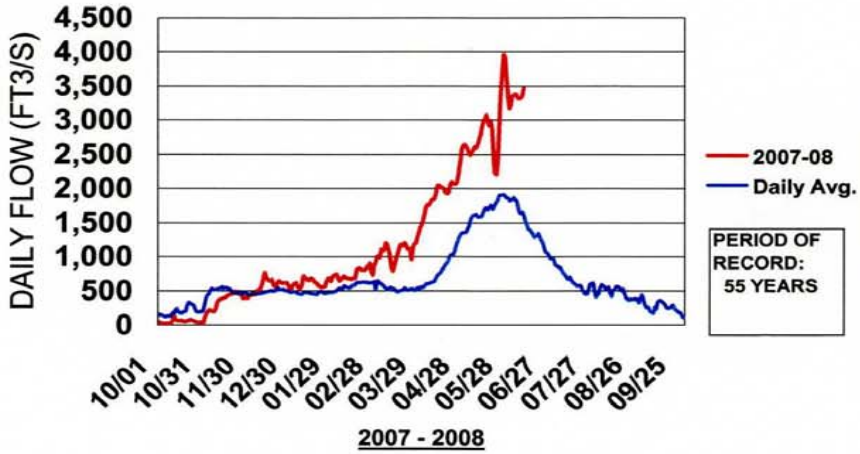
RIO GRANDE AT ALBUQUERQUE, NM



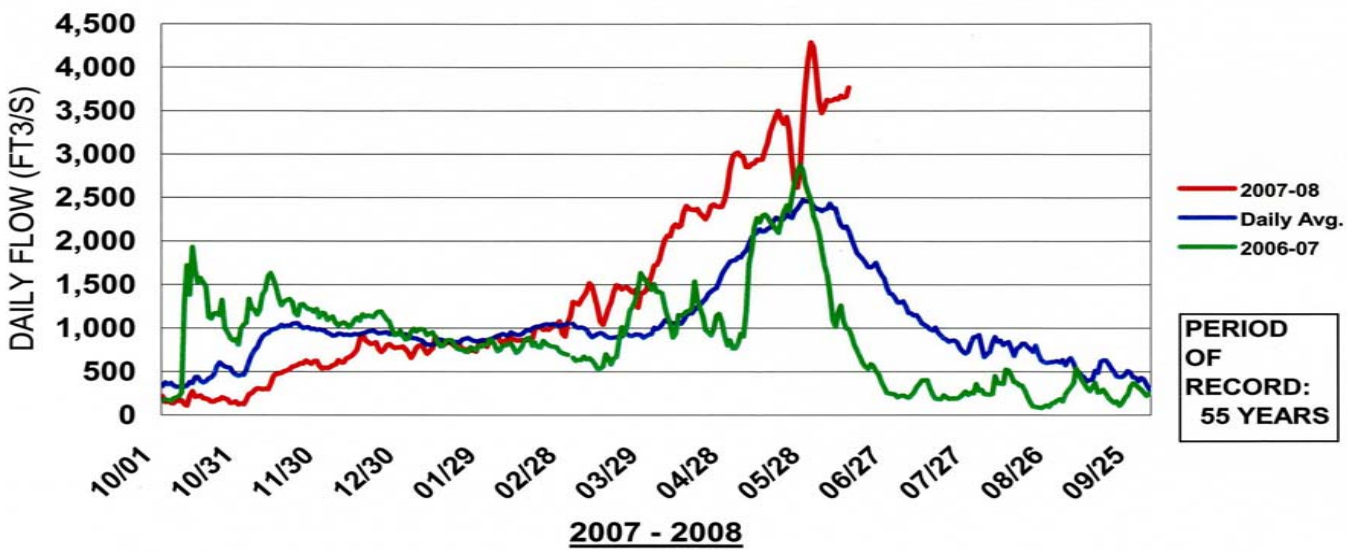
RIO GRANDE AT SAN MARCIAL,NM LOW FLOW CONVEYANCE CHANNEL



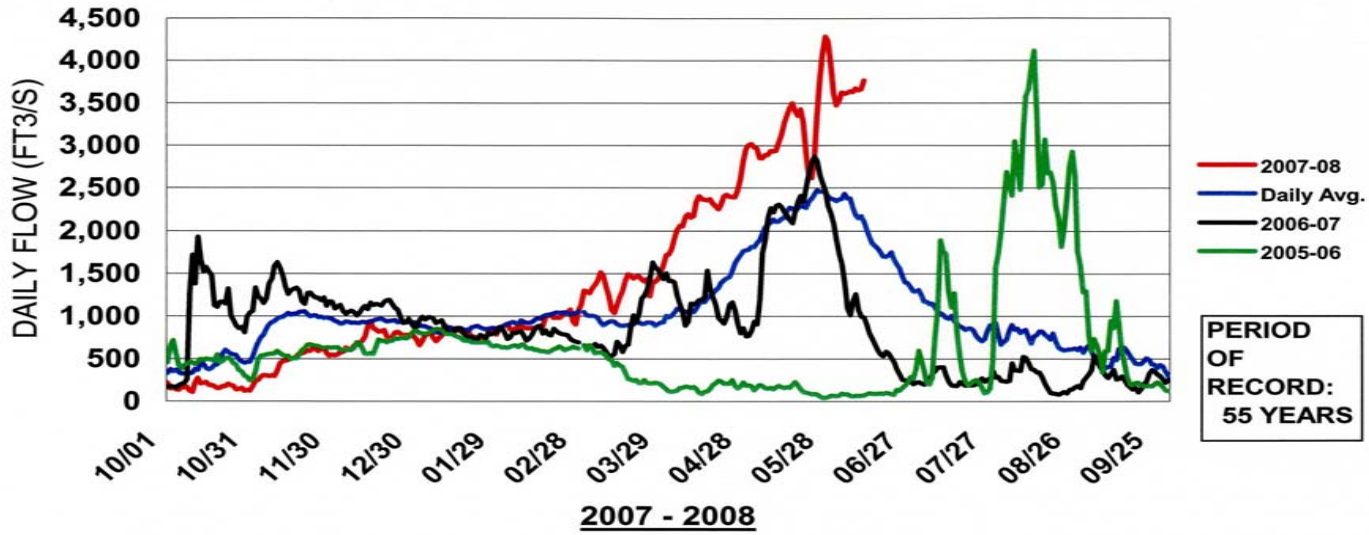
RIO GRANDE AT SAN MARCIAL,NM FLOODWAY



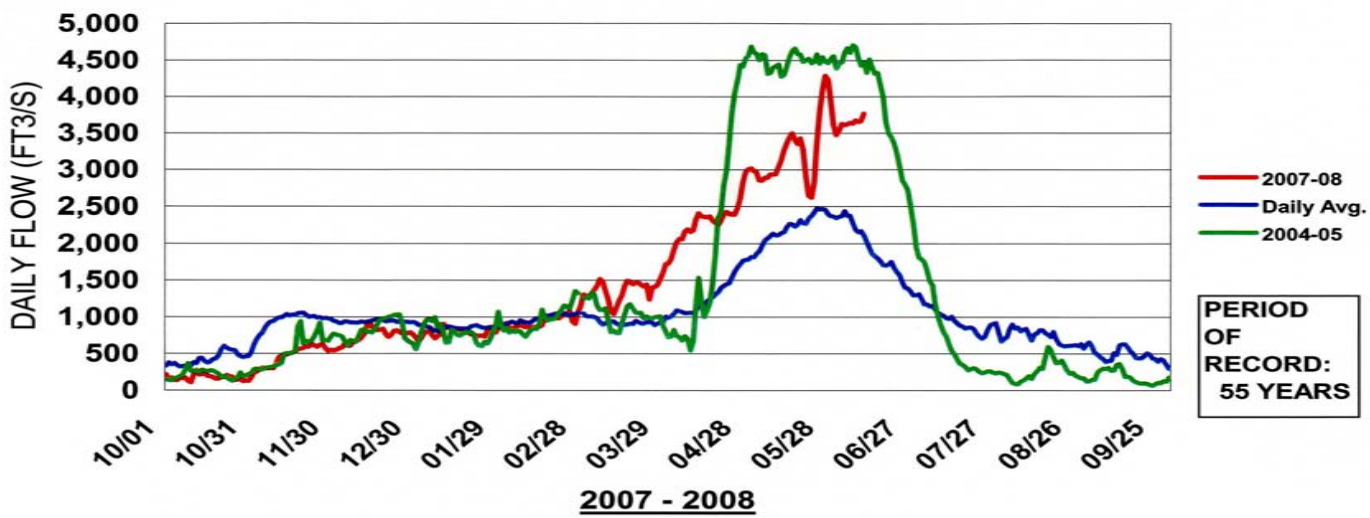
RIO GRANDE AT SAN MARCIAL, NM COMBINED GAUGING STATIONS



RIO GRANDE AT SAN MARCIAL, NM
COMBINED GAUGING STATIONS



RIO GRANDE AT SAN MARCIAL, NM
COMBINED GAUGING STATIONS



RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

INFLOW TO ELEPHANT BUTTE RESERVOIR AT SAN MARCIAL STATIONS

	2007			2008				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	10,217	27,189	44,941	48,363	53,726	84,367	137,429	199,521	605,753
Avg.	30,000	59,000	60,000	47,000	48,000	60,000	120,000	195,000	619,000

Mar.-Jul. 2007 = 55.3% of average (316,976 AF)

Mar. 2008 – May 2008 = 112.4% of average

Oct. 2007 – Feb. 2008 = 75.6% of average

Projected Mar. 2008 – Jul. 2008 = 118.0% of average

EL NIÑO/SOUTHERN OSCILLATION (ENSO) DIAGNOSTIC DISCUSSION

issued by

CLIMATE PREDICTION CENTER/NCEP/NWS

5 June 2008

Synopsis: A transition from La Niña to ENSO-neutral conditions is expected during June-July 2008.

La Niña continued to weaken during May 2008, reflected mainly by changes in sea surface temperatures (SSTs) across the equatorial Pacific Ocean. Negative SST anomalies in the central and east-central equatorial Pacific weakened, while the region of positive SST anomalies increased in the eastern Pacific (Fig. 1). The latest weekly SSTs in the westernmost Niño-4 and Niño-3.4 regions are near 0.5°C below-average, and were close to 0.5°C above-average in the easternmost Niño-3 and Niño 1+2 regions by the end of the month (Fig. 2).

Positive oceanic heat content anomalies (average temperatures in the upper 300m of the ocean; Fig. 3) reflected the continuation of above-average temperatures at thermocline depth in the west-central and eastern equatorial Pacific (Fig. 4). However, a shallow layer of negative anomalies (between the surface and 100m in the central Pacific) continue to be sufficiently cool to maintain the below-average SSTs, which support the atmospheric anomalies associated with La Niña. Enhanced low-level easterly winds and upper-level westerly winds continued across the central equatorial Pacific, while convection remained suppressed throughout the central equatorial Pacific and enhanced over the far western Pacific. Collectively, these atmospheric and oceanic conditions continue to indicate an ongoing, but gradually weakening, La Niña.

A majority of the recent dynamical and statistical SST forecasts for the Niño 3.4 region indicate a transition to ENSO-neutral conditions during June - August 2008 (Fig. 5). During the second half of the year, the majority of models reflect ENSO-neutral conditions (−0.5 to 0.5 in the Niño-3.4 region). However, there is considerable uncertainty during this period as some models suggest the possible development of El Niño while others show a re-development of La Niña. Based on current atmospheric and oceanic conditions and recent trends, a transition from La Niña to ENSO-neutral conditions is expected during June- July 2008.

This discussion is a consolidated effort of the National Atmospheric and Oceanic Administration (NOAA), NOAA's National Weather Service, and their funded institutions. Oceanic and atmospheric conditions are updated weekly on the Climate Prediction Center web site (El Niño/La Niña Current Conditions and Expert Discussions). Forecasts for the evolution of El Niño/La Niña are updated monthly in the Forecast Forum section of CPC's Climate Diagnostics Bulletin. The next ENSO Diagnostics Discussion is scheduled for 10 July 2008. To receive an e-mail notification when the monthly ENSO Diagnostic Discussions are released, please send an e-mail message to: ncep.list.enso-update@noaa.gov.

Climate Prediction Center
National Centers for Environmental Prediction
NOAA/National Weather Service
Camp Springs, MD 20746-4304

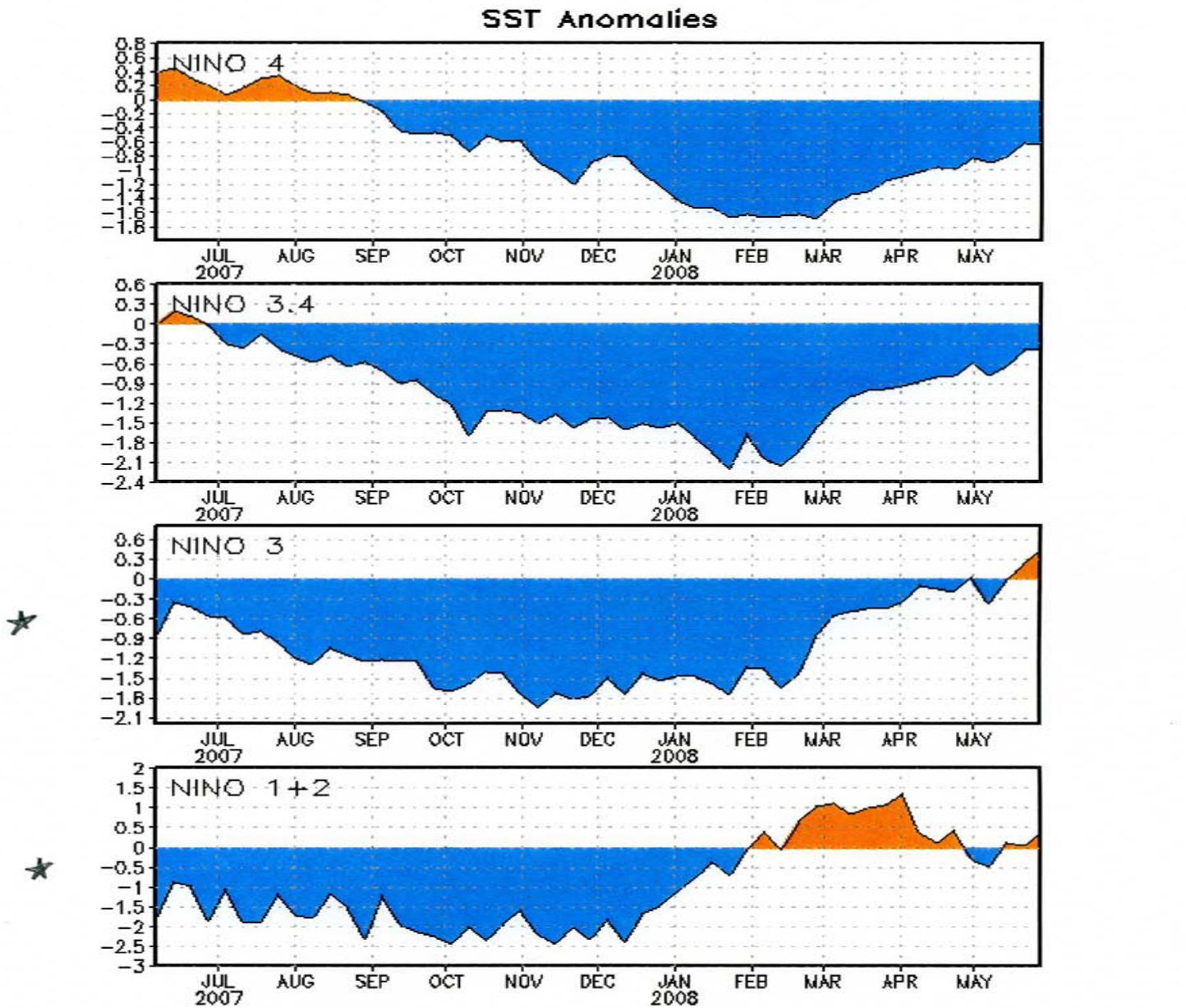


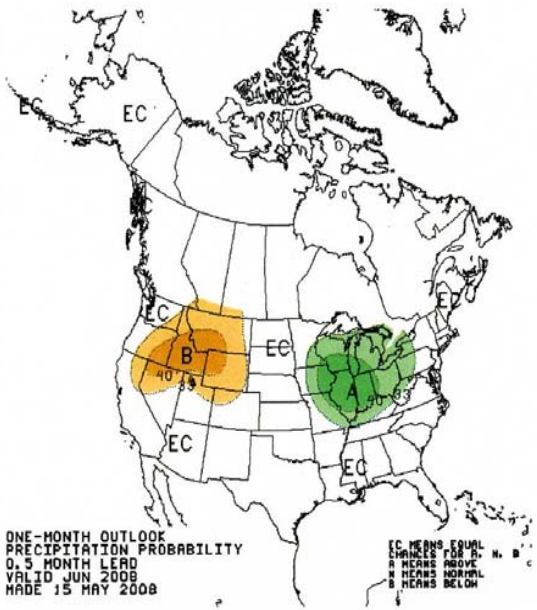
Figure 2. Time series of area-averaged sea surface temperature (SST) anomalies (°C) in the Niño regions [Niño-1+2 (0°-10°S, 90°-80°W), Niño 3 (5°N-5°S, 150°W-90°W), Niño-3.4 (5°N-5°S, 170°W-120°W), Niño-4 (150°W-160°E and 5°N-5°S)]. SST anomalies are departures are from the 1971-2000 base period weekly means (Xue et al. 2003, *J. Climate*, **16**, 1601-1612).

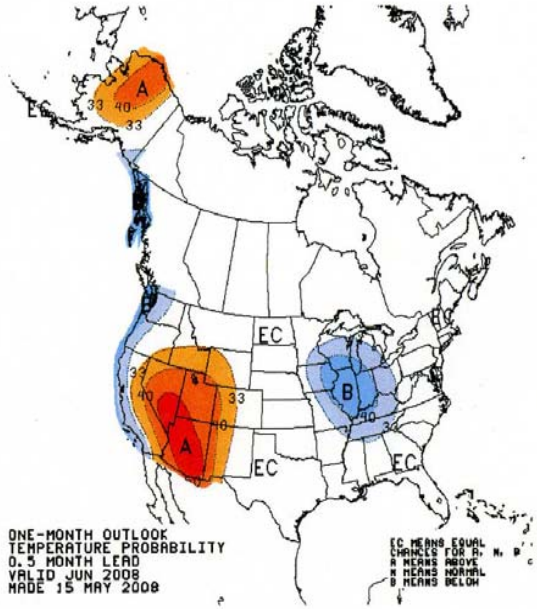
2008

Precipitation

Temperature

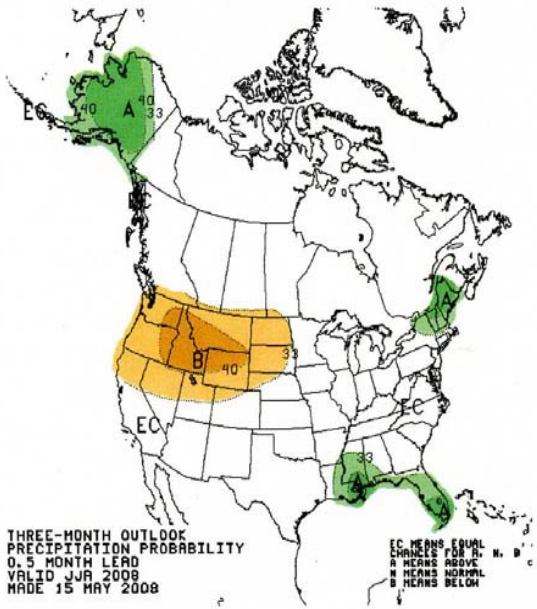
Jun08

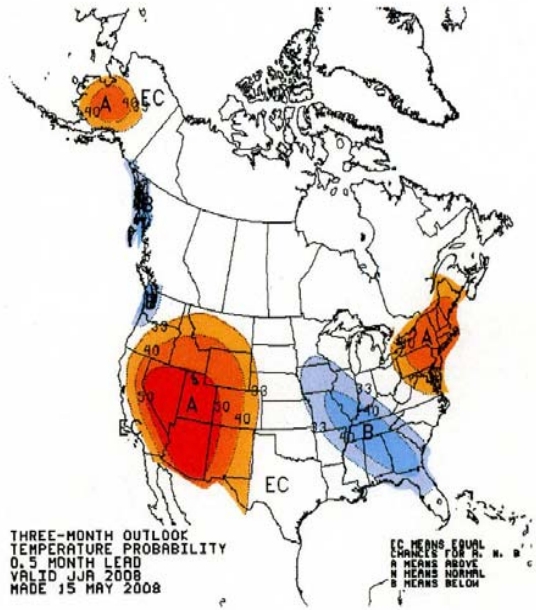




Jun08

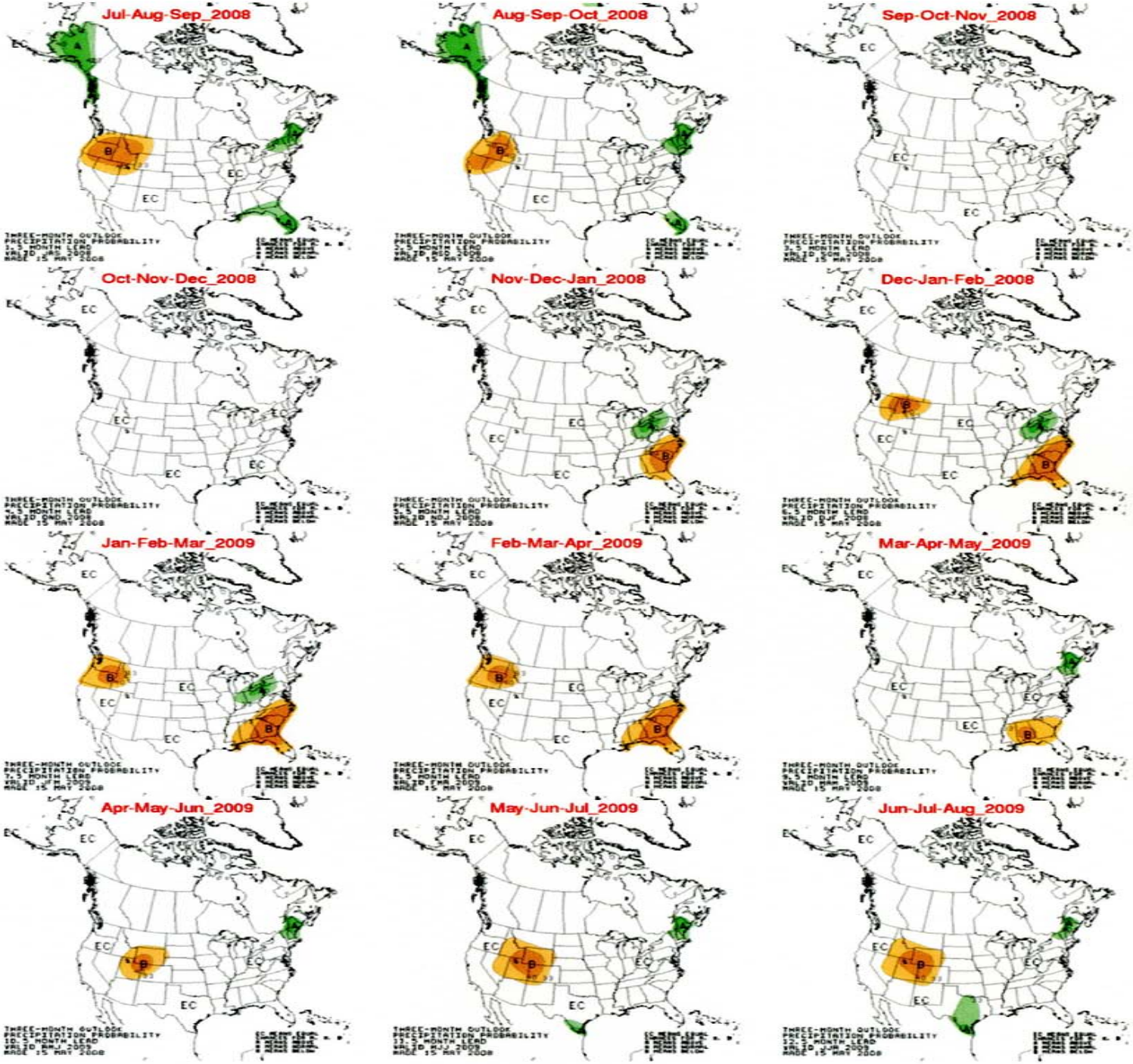
Jun08-Aug08



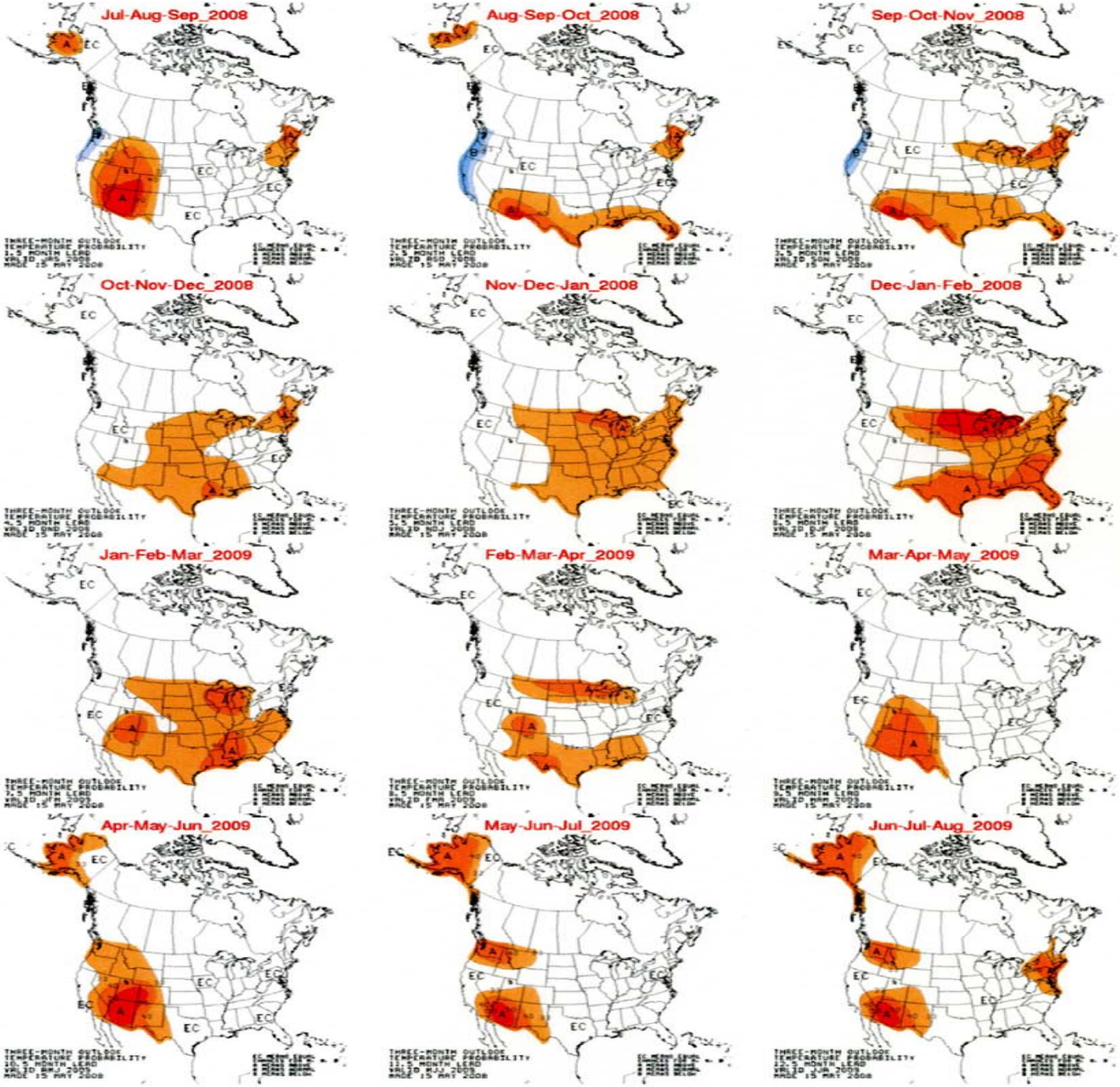


Jun08-Aug08

Precipitation
Jul08-Jun09



Temperature
Jul08-Jun09



RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

CURRENT RESERVOIR CONDITIONS

U. S Dept. of the Interior
Bureau of Reclamation

BUREAU OF RECLAMATION
RIO GRANDE PROJECT
EL PASO, TX

2008 OPERATIONAL DATA STATUS

ELEPHANT BUTTE RESERVOIR

			RESERVOIR WATER SURFACE ELEVATION (feet)		FEET BELOW SPILLWAY CREST (feet)	RESERVOIR TOTAL STORAGE (acre-feet)	PERCENT OF FULL RESERVOIR (%)	RESERVOIR WATER SURFACE AREA (acres)	PERCENT OF FULL RESERVOIR SURFACE AREA (%)
TODAY'S DATE:	**Thursday,**	**June 12, 2008**	**4349.24**		**57.76**	**632,558**	**32.05%**	**14,652**	**41.63%**
2007 HIGH POINT:	**Monday,**	**March 26, 2007**	**4347.76**		**59.24**	**611,063**	**30.58%**	**14,395**	**40.45%**
2007 LOW POINT:	**Wednesday,**	**October 24, 2007**	**4324.40**		**82.60**	**323,488**	**16.19%**	**10,270**	**28.85%**
Gates Closed Oct. 25, 2007									
2006 LOW POINT:	Friday,	July 28, 2006	4308.50		98.50	183,875	9.32%	7,228	20.54%
2005 LOW POINT:	Saturday,	January 01, 2005	4309.94		97.06	194,426	9.73%	7,426	20.86%
2004 LOW POINT:	Friday,	September 24, 2004	4294.04	*	112.96	94,615	4.79%	4,935	14.02%

* We haven't been this low at Elephant Butte Reservoir since November 1978.

CABALLO RESERVOIR

TODAY'S DATE:	**Thursday,**	**June 12, 2008**	**4146.86**		**25.58**	**	**53,033**	**23.40%**	**4,150**	**44.38%**
2007 HIGH POINT:	**Wednesday,**	**May 23, 2007**	**4151.88**		**20.56**	**	**76,662**	**33.82%**	**5,243**	**56.07%**
2007 LOW POINT:	**Tuesday,**	**October 16, 2007**	**4132.72**		**39.72**	**	**13,287**	**5.86%**	**1,814**	**19.39%**
Gates Closed Oct. 26, 2007.										
2006 FALL LOW PT.:	Sunday,	October 08, 2006	4141.98		30.46	**	35,351	15.60%	3,121	33.37%
Gates Closed Oct. 10, 2006.										
2005 LOW POINT:	Thursday,	October 13, 2005	4131.26		41.18	**	10,744	4.74%	1,670	17.86%
Gates Closed Oct. 14, 2005.										
2004 GATES CLOSED:	Tuesday,	September 28, 2004	4134.10		38.34	**	15,883	7.01%	1,949	20.84%

** Feet below top of conservation pool.

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 RESERVOIR OPERATIONS

U. S Dept. of the Interior
Bureau of Reclamation

WORKSHEET OF STATUS OF RIO GRANDE COMPACT CREDIT WATERS & SAN JUAN-CHAMA WATER IN ELEPHANT BUTTE RESERVOIR AND ACCRUED DEPARTURES

WTreers
6/11/2008

2008

	ELEPHANT BUTTE RESERVOIR			CABALLO RESERVOIR
	Rio Grande Compact Credit Waters		San Juan-Chama Pool	Rio Grande Compact Accrued Departure
	Colorado (AF)	New Mexico (AF)	(AF)	Texas (AF)
Beginning of 2008 (derived from 2007 RGC Accounting)	7,200	184,500	4,048	778,400
Inflow to San Juan-Chama Pool from transfer upstream (Mar. 1 - Mar. 24, 2008)			21,911	
Estimated Evaporation from Jan. 1 to May 31, 2008 (derived from actual data)			1,619	
Relinquishment of Credit Water by NM to TX on February 01, 2008		125,000		
Relinquishment of Credit Water by CO to TX on February 29, 2008	1,200			
Caballo Reservoir Releases (actual data thru May 31, 2008)				292,404
Bonita Lateral Releases (actual data thru April 07, 2008)				228
2008 Departure from Normal Release at Caballo Reservoir (thru Dec. 31, 2008)				0
Preliminary Status of RGC Credit Waters, SJ-C Water, & Accr. Deps. to May 31, 2008	6,000	59,500	24,340	778,400 Accrued Departure CREDITS

RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Thursday, June 12, 2008		
Elephant Butte Reservoir	632,558 acre-feet	
Caballo Reservoir	53,033 acre-feet	685,591 AF
Compact Credit Waters	-65,500 acre-feet	
San Juan-Chama Water	-24,340 acre-feet	-89,840 AF
USABLE PROJECT WATER		**595,751 AF**

RECLAMATION

2008
RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Rio Grande Compact Article VII Restriction

Compact usable water went below 400K on Jul. 04, 2007
Compact usable water went above 400K on Feb. 01, 2008

Prediction (based on latest RGP op. plan dated 06/09/08):
Go Below 400K on September 17, 2008
Go Above 400K on November 11, 2008
Stay above 400K for the rest of 2008

RIO GRANDE PROJECT RESERVOIR OPERATIONS — **PRELIMINARY SUBJECT TO REVIEW** — 09-Jun-08

BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR Jun 1

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 116% 665 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 118% 676 KAF

** Based on 30-yr (1971-2000)avg of 573,000 Acre-feet.

* Actual historical data

	YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	ELEPHANT BUTTE====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2007														**2007**
*	JAN	38	-14	52	5	2	558	1	1	-3	0	0	0	45	JAN
*	FEB	40	-3	44	-1	4	598	0	1	-2	0	0	0	47	FEB
*	MAR	86	28	57	-14	7	609	54	1	4	76	0	76	19	MAR
*	APR	73	8	66	-15	10	556	124	2	6	74	0	74	61	APR
*	MAY	161	29	133	4	10	601	73	3	6	56	0	56	68	MAY
*	JUN	84	38	46	-11	14	571	73	4	-7	104	0	104	40	JUN
*	JUL	50	34	16	-13	11	461	128	3	1	105	0	105	59	JUL
*	AUG	44	29	15	-15	9	397	86	3	4	105	0	105	33	AUG
*	SEP	40	23	17	-12	7	358	61	1	0	77	0	77	16	SEP
*	OCT	32	21	11	-5	6	326	42	1	-2	39	0	39	21	OCT
*	NOV	32	5	27	-4	4	352	0	1	-2	0	0	0	22	NOV
*	DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
	TOTAL	**736**	**221**	**515**	**-109**	**87**		**642**	**22**	**2**	**637**	**0**	**637**		**TOTAL**
	AVG		**Total Mar-Jul**				**483**							**38**	**AVG**
		454	**137**	**317**	**55%**										

	YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	ELEPHANT BUTTE====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2008														**2008**
*	JAN	45	-3	48	-1	3	455	1	1	-2	0	0	0	26	JAN
*	FEB	57	3	54	-4	5	482	25	1	3	7	0	7	41	FEB
*	MAR	140	55	84	-32	8	495	95	2	7	89	0	89	38	MAR
*	APR	215	78	137	-33	12	536	117	3	6	95	0	95	51	APR
*	MAY	260	61	199	-0	16	615	104	3	3	103	0	103	46	MAY
	JUN	255	78	177	7	18	625	141	8	-4	129	0	129	55	JUN
	JUL	72	-7	79	-7	18	561	132	3	1	133	0	133	50	JUL
	AUG	68	16	52	-9	18	480	123	3	3	132	0	132	35	AUG
	SEP	55	17	38	-6	12	449	63	1	0	78	0	78	20	SEP
	OCT	47	7	40	-4	10	467	16	1	-2	25	0	25	11	OCT
	NOV	52	-7	59	1	5	520	0	1	-2	0	0	0	12	NOV
	DEC	53	-7	60	2	3	574	0	1	-3	0	0	0	14	DEC
	TOTAL	**1318**	**292**	**1027**	**-86**	**128**		**819**	**28**	**11**	**790**	**0**	**790**		**TOTAL**
	AVG		**Total Mar-Jul**				**522**							**33**	**AVG**
		941	**265**	**676**	**118%**										

	YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	ELEPHANT BUTTE====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2009														**2009**
	JAN	40	-7	47	0	4	617	0	1	-3	0	0	0	16	JAN
	FEB	44	-4	48	-0	8	635	22	1	-2	0	0	0	40	FEB
	MAR	75	15	60	-1	10	558	128	2	2	119	0	119	45	MAR
	APR	157	37	120	-2	16	581	83	2	2	79	0	79	45	APR
	MAY	250	55	195	-4	18	662	100	3	2	90	0	90	50	MAY
	JUN	197	67	130	-6	24	638	137	4	2	131	0	131	50	JUN
	JUL	119	51	68	-7	18	559	136	4	-1	133	0	133	50	JUL
	AUG	78	34	44	-9	14	484	113	2	-3	124	0	124	40	AUG
	SEP	55	23	32	-6	12	453	58	1	-2	78	0	78	20	SEP
	OCT	47	17	30	-2	10	450	25	1	-2	35	0	35	11	OCT
	NOV	52	-7	59	2	5	502	0	1	-2	0	0	0	12	NOV
	DEC	53	-7	60	2	3	556	0	0	-3	0	0	0	14	DEC
	TOTAL	**1167**	**274**	**894**	**-33**	**142**		**803**	**22**	**-9**	**790**	**0**	**790**		**TOTAL**
	AVG		**Total Mar-Jul**				**558**							**32**	**AVG**
		798	**225**	**573**	**100%**										

RIO GRANDE PROJECT RESERVOIR OPERATIONS — PRELIMINARY SUBJECT TO REVIEW — 12-Jun-08

BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR Jun 1

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 107% 615 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 110% 631 KAF

** Based on 30-yr (1971-2000)avg of 573,000 Acre-feet. * Actual historical data

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	YEAR
2007														2007
* JAN	38	-14	52	5	2	558	1	1	-3	0	0	0	45	JAN
* FEB	40	-3	44	-1	4	598	0	1	-2	0	0	0	47	FEB
* MAR	86	28	57	-14	7	609	54	1	4	76	0	76	19	MAR
* APR	73	8	66	-15	10	556	124	2	6	74	0	74	61	APR
* MAY	161	29	133	4	10	601	73	3	6	56	0	56	68	MAY
* JUN	84	38	46	-11	14	571	73	4	-7	104	0	104	40	JUN
* JUL	50	34	16	-13	11	461	128	3	1	105	0	105	59	JUL
* AUG	44	29	15	-15	9	397	86	3	4	105	0	105	33	AUG
* SEP	40	23	17	-12	7	358	61	1	0	77	0	77	16	SEP
* OCT	32	21	11	-5	6	326	42	1	-2	39	0	39	21	OCT
* NOV	32	5	27	-3	3	352	0	1	-2	0	0	0	22	NOV
* DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
TOTAL	736	221	515	-108	87		642	22	2	637	0	637		TOTAL
AVG		Total Mar-Jul				483							38	AVG
	454	137	317	55%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	YEAR
2008														2008
* JAN	45	-3	48	-1	3	455	1	1	-2	0	0	0	26	JAN
* FEB	57	3	54	-4	5	482	25	1	3	7	0	7	41	FEB
* MAR	140	55	84	-32	8	495	95	2	7	89	0	89	38	MAR
* APR	215	78	137	-33	12	536	117	3	6	95	0	95	51	APR
* MAY	260	61	199	-0	16	615	104	3	3	103	0	103	46	MAY
JUN	205	53	152	-2	18	618	133	4	-4	133	0	133	45	JUN
JUL	77	18	59	-7	12	535	137	3	1	133	0	133	45	JUL
AUG	78	30	48	-12	11	453	131	3	3	135	0	135	35	AUG
SEP	55	19	36	-6	7	430	58	1	0	71	0	71	20	SEP
OCT	47	7	40	-2	5	452	15	1	-2	25	0	25	12	OCT
NOV	52	-7	59	2	3	506	0	1	-2	0	0	0	13	NOV
DEC	53	-7	60	2	2	562	0	1	-3	0	0	0	15	DEC
TOTAL	1283	307	976	-94	101		816	24	11	790	0	790		TOTAL
AVG		Total Mar-Jul				512							32	AVG
	896	265	631	110%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	YEAR
2009														2009
JAN	40	-7	47	0	8	601	0	1	-4	0	0	0	18	JAN
FEB	44	-4	48	-0	5	623	21	1	-2	0	0	0	40	FEB
MAR	75	15	60	-1	6	555	123	2	2	119	0	119	40	MAR
APR	157	37	120	-2	20	569	88	2	2	79	0	79	45	APR
MAY	250	55	195	-4	12	656	100	3	2	90	0	90	50	MAY
JUN	197	67	130	-6	10	647	136	3	2	131	0	131	50	JUN
JUL	119	51	68	-7	9	578	135	3	-1	133	0	133	50	JUL
AUG	78	34	44	-9	24	494	113	2	-3	124	0	124	40	AUG
SEP	55	23	32	-6	18	456	58	1	-2	78	0	78	20	SEP
OCT	47	17	30	-2	15	448	25	1	-2	35	0	35	12	OCT
NOV	52	-7	59	2	10	495	0	1	-2	0	0	0	13	NOV
DEC	53	-7	60	2	8	544	0	0	-3	0	0	0	15	DEC
TOTAL	1167	274	894	-33	145		800	20	-10	790	0	790		TOTAL
AVG		Total Mar-Jul				555							33	AVG
	798	225	573	100%										

RIO GRANDE PROJECT RESERVOIR OPERATIONS — PRELIMINARY SUBJECT TO REVIEW — 09-Jun-08

BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR Jun 1

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 96% 550 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 100% 571 KAF

** Based on 30-yr (1971-2000)avg of 573,000 Acre-feet. * Actual historical data

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	YEAR
2007														2007
* JAN	38	-14	52	5	2	558	1	1	-3	0	0	0	45	JAN
* FEB	40	-3	44	-1	4	598	0	1	-2	0	0	0	47	FEB
* MAR	86	28	57	-14	7	609	54	1	4	76	0	76	19	MAR
* APR	73	8	66	-15	10	556	124	2	6	74	0	74	61	APR
* MAY	161	29	133	4	10	601	73	3	6	56	0	56	68	MAY
* JUN	84	38	46	-11	14	571	73	4	-7	104	0	104	40	JUN
* JUL	50	34	16	-13	11	461	128	3	1	105	0	105	59	JUL
* AUG	44	29	15	-15	9	397	86	3	4	105	0	105	33	AUG
* SEP	40	23	17	-12	7	358	61	1	0	77	0	77	16	SEP
* OCT	32	21	11	-5	6	326	42	1	-2	39	0	39	21	OCT
* NOV	32	5	27	-3	3	352	0	1	-2	0	0	0	22	NOV
* DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
TOTAL	736	221	515	-108	87		642	22	2	637	0	637		TOTAL
AVG		Total Mar-Jul				483							38	AVG
	454	137	317	55%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	YEAR
2008														2008
* JAN	45	-3	48	-1	3	455	1	1	-2	0	0	0	26	JAN
* FEB	57	3	54	-4	5	482	25	1	3	7	0	7	41	FEB
* MAR	140	55	84	-32	8	495	95	2	7	89	0	89	38	MAR
* APR	215	78	137	-33	12	536	117	3	6	95	0	95	51	APR
* MAY	260	61	199	-0	16	615	104	3	3	103	0	103	46	MAY
JUN	164	44	120	-5	18	583	138	8	-8	134	0	134	50	JUN
JUL	58	27	31	-7	14	466	141	3	1	133	0	133	55	JUL
AUG	78	34	44	-9	12	387	120	3	4	132	0	132	35	AUG
SEP	55	23	32	-6	8	357	59	1	0	73	0	73	20	SEP
OCT	47	17	30	-2	6	369	14	1	-1	24	0	24	11	OCT
NOV	52	-7	59	2	3	423	0	1	-2	0	0	0	12	NOV
DEC	53	-7	60	2	3	477	0	1	-3	0	0	0	14	DEC
TOTAL	1223	325	898	-95	109		816	27	9	790	0	790		TOTAL
AVG		Total Mar-Jul				470							33	AVG
	836	265	571	100%										

YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	====> RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	YEAR
2009														2009
JAN	40	-7	47	0	3	521	0	1	-4	0	0	0	17	JAN
FEB	44	-4	48	-0	5	542	22	1	-2	0	0	0	40	FEB
MAR	75	15	60	-1	8	472	122	2	2	119	0	119	40	MAR
APR	157	37	120	-2	12	489	93	2	2	79	0	79	50	APR
MAY	250	55	195	-4	15	578	95	3	2	90	0	90	50	MAY
JUN	197	67	130	-6	17	562	136	3	2	131	0	131	50	JUN
JUL	119	51	68	-7	17	485	135	3	-1	133	0	133	50	JUL
AUG	78	34	44	-9	13	412	113	2	-3	124	0	124	40	AUG
SEP	55	23	32	-6	11	381	58	1	-2	78	0	78	20	SEP
OCT	47	17	30	-2	9	379	25	1	-2	35	0	35	11	OCT
NOV	52	-7	59	2	5	431	0	1	-2	0	0	0	12	NOV
DEC	53	-7	60	2	3	485	0	0	-1	0	0	0	13	DEC
TOTAL	1167	274	894	-33	118		800	20	-8	790	0	790		TOTAL
AVG		Total Mar-Jul				478							33	AVG
	798	225	573	100%										

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 WATER SUPPLY & PROJECTED ALLOCATION

U. S Dept. of the Interior
Bureau of Reclamation

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 PRECIPITATION

Elephant Butte Dam – 0.24 in. (normal – 1.42 in.) [thru May 31]

Caballo Dam – 0.90 in. (normal – 1.33 in.) [thru May 31]

Las Cruces, NM – 0.21 in. (normal – 1.69 in.) [thru Jun 08]

El Paso, TX – 0.34 in. (normal – 1.86 in.) [thru Jun 08]

2008 Rio Grande Project Allocation

Initial Allocation - End of December, 2007

(letter issued Jan. 18, 2008)

Mexico	10,711	AF
Elephant Butte Irrigation District	59,928	AF
El Paso County Water Improvement District # 1	154,901	AF
[24.20% of a full supply]	225,540	AF *

Updated Allocation - End of January, 2008

(letter issued Feb. 21, 2008)

Mexico	26,935	AF
Elephant Butte Irrigation District	151,859	AF
El Paso County Water Improvement District # 1	232,339	AF
[44.12% of a full supply]	411,133	AF *

Updated Allocation - End of February, 2008

(letter issued Mar. 20, 2008)

Mexico	31,519	AF
Elephant Butte Irrigation District	169,877	AF
El Paso County Water Improvement District # 1	258,634	AF
[49.37% of a full supply]	460,030	AF *

Updated Allocation - End of March, 2008

(letter issued Apr. 17, 2008)

Mexico	38,773	AF
Elephant Butte Irrigation District	198,384	AF
El Paso County Water Improvement District # 1	300,239	AF
[57.67% of a full supply]	537,396	AF *

Updated Allocation - End of April, 2008

(letter issued May 19, 2008)

Mexico	52,680	AF
Elephant Butte Irrigation District	253,045	AF
El Paso County Water Improvement District # 1	380,012	AF
[73.59% of a full supply]	685,737	AF *

* Project water supply available for diversion at the authorized canal headings.

2008 Rio Grande Project Allocation

Updated Allocation - End of May, 2008

(letter issued June 16, 2008)

Mexico	59,411	AF
Elephant Butte Irrigation District	329,098	AF
El Paso County Water Improvement District # 1	480,490	AF
[93.26% of a full supply]	868,999	AF *

* Project water supply available for diversion at the authorized canal headings.

2008 Rio Grande Project Allocation

Updated Allocation - End of May, 2008

(letter issued June 16, 2008)

Mexico	59,411	AF
Elephant Butte Irrigation District	329,098	AF
El Paso County Water Improvement District # 1	480,490	AF
[93.26% of a full supply]	868,999	AF *

* Project water supply available for diversion at the authorized canal headings.

2007 Rio Grande Project Allocation

Updated Allocation - End of May, 2007

(letter issued June 29, 2007)

Mexico	51,749	AF
Elephant Butte Irrigation District	248,745	AF
El Paso County Water Improvement District # 1	349,839	AF
[69.79% of a full supply]	650,333	AF *

* Project water supply available for diversion at the authorized canal headings.

SUMMARY TABLE OF PROJECTED ALLOCATIONS FOR 2008

W Treers
6/11/2008

		Most Probable	70% Exceed.	90% Exceed.
SAN MARCIAL 2008 ESTIMATED RUNOFF FORECAST		**665,000 AF 116%** of Average *	**615,000 AF 107%** of Average *	**550,000 AF 96%** of Average *
FORECASTS ADJUSTED FOR UPSTREAM REGULATION		+ 10,900 AF **675,900 AF 118%**	+ 15,900 AF **630,900 AF 110%**	+ 20,900 AF **570,900 AF 100%**
		(acre-feet)	(acre-feet)	(acre-feet)
EO JUNE, 2008 ** (a)	EBID (b)	478,012	465,772	436,996
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,021,856 109.66%**	**1,009,616 108.35%**	**980,840 105.26%**
EO JULY, 2008 ** (a)	EBID (b)	494,979	494,979	494,979
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823 111.48%**	**1,038,823 111.48%**	**1,038,823 111.48%**
EO AUGUST, 2008 ** (a)	EBID (b)	494,979	494,979	494,979
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823 111.48%**	**1,038,823 111.48%**	**1,038,823 111.48%**
EO SEPTEMBER, 2008 ** (a)	EBID (b)	494,979	494,979	494,979
	EP#1	483,844	483,844	483,844
	MEXICO	60,000	60,000	60,000
	TOTAL	**1,038,823 111.48%**	**1,038,823 111.48%**	**1,038,823 111.48%**

	Most Probable	70% Exceed.	90% Exceed.
2008 ESTIMATED CABALLO RESERVOIR RELEASE	788,835	789,005	789,103
2008 ESTIMATED ELEPHANT BUTTE RESERVOIR HIGH POINT	635,100 (June 13)	635,100 (June 13)	635,100 (June 13)
FALL 2008 ESTIMATED ELEPHANT BUTTE RESERVOIR LOW POINT	448,476 (October 13)	434,023 (October 15)	355,678 (October 14)

* Average (normal) runoff volume at San Marcial gauging stations (Mar-Jul) is 573,000 AF.

** EO month storage figures based on Reclamation's Rio Grande Project reservoirs operational plans developed on **June 09, 2008**. Allotments are made to the Rio Grande Project canal headings. A full supply allocation for an irrigation season is: 494,979 AF to EBID canal headings; 376,862 AF to EP#1 headings; and 60,000 AF to Mexico's Acequia Madre heading under the 1906 Treaty for a total of 931,841 AF.

(a) Assuming a relinquishment of Rio Grande Compact credit waters occurring in 2008 for New Mexico of 125,000 AF and 1,200 AF for Colorado. Excludes New Mexico's and Colorado's estimated Rio Grande Compact credit waters in Elephant Butte Reservoir of 65,500 AF accrued credits at beginning of 2008 as well as San Juan-Chama water of 24,340 AF through May 31, 2008.

(b) Assuming river efficiency of 0.999962 until May when the efficiency increases to 1.013091, and in July increasing to 1.07, and in August increasing to 1.10

2008 STATUS OF RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

	118%	110%	100%
Below 400 KAF	Jan 01	Jan 01	Jan 01
Above 400 KAF	Feb 01	Feb 01	Feb 01
Below 400 KAF	Sep 17	Aug 31	Aug 07
Above 400 KAF	Nov 11	Nov 18	Dec 29

Stay above 400 KAF for rest of 2008

		Caballo Release AF	Heading Diversions AF	Charges AF	Efficiency %
	Jan	0	0		
	Feb	6611	3259	3408	52%
	Mar	88602	76175	75448	85%
	Apr	94705	91160	94773	100%
	May				
	Jun				
	Jul				
	Aug				
	Sep				
	Oct				
Total		189917	170594	173629	91%

CABALLO RESERVOIR RELEASE TENTATIVE SCHEDULE FOR 2008

* actual release dates.

* Feb. 20:	Release from Caballo Dam for EP#1's orders
* Feb. 21:	Release from Elephant Butte Dam
* Feb. 29:	Release from Caballo Dam for EBID's orders
* March 14:	Release from Caballo Dam for Mexico's orders
Oct. 14:	Tentative shutdown of EButte Dam for end of season
Oct. 15:	Tentative shutdown at Caballo Dam to end irrig. season

RECLAMATION

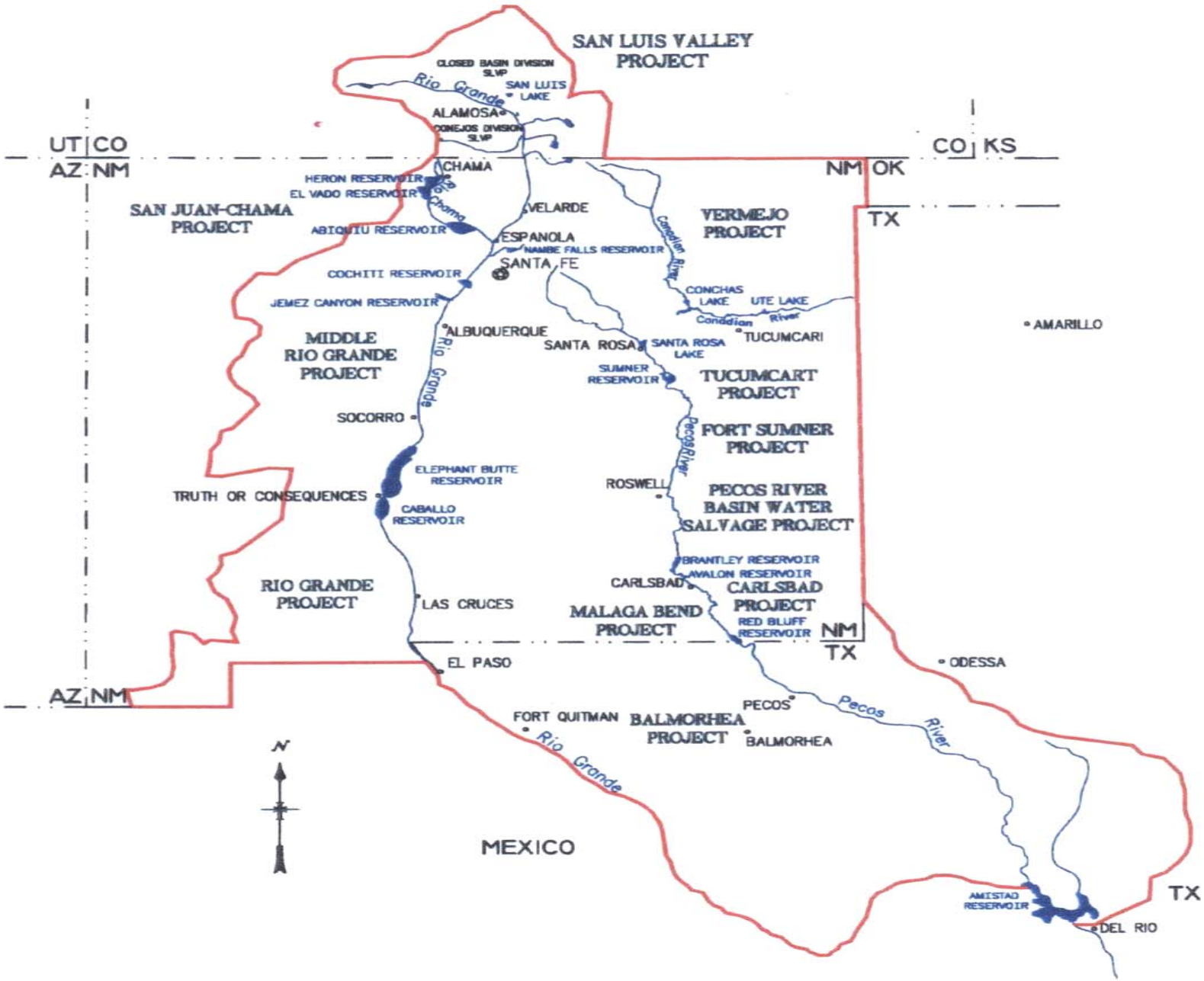
Managing Water in the West

RIO GRANDE PROJECT

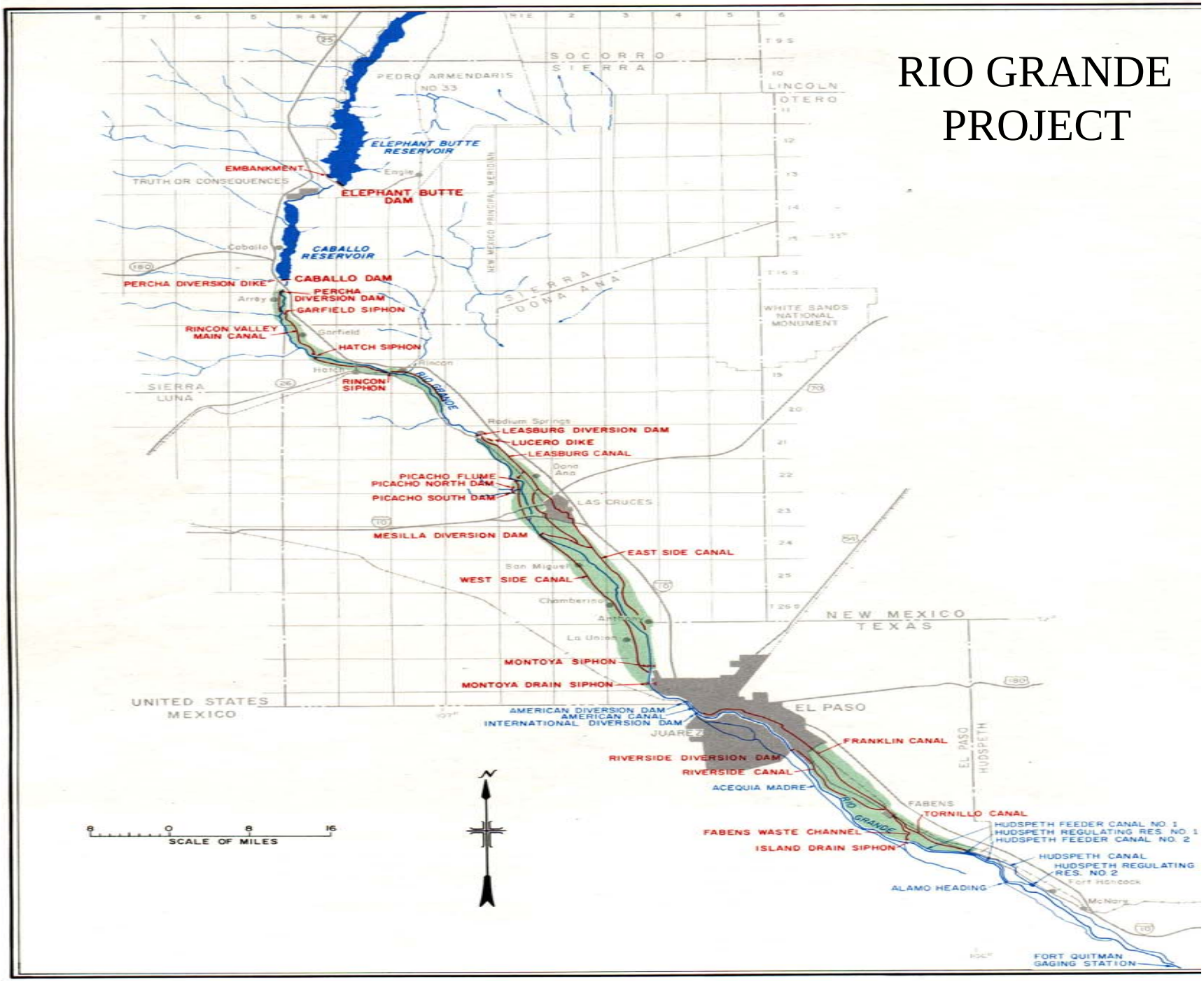
SUPPORTING INFORMATION

U. S Dept. of the Interior
Bureau of Reclamation

ALBUQUERQUE AREA OFFICE
BUREAU OF RECLAMATION



RIO GRANDE PROJECT



RIO GRANDE PROJECT

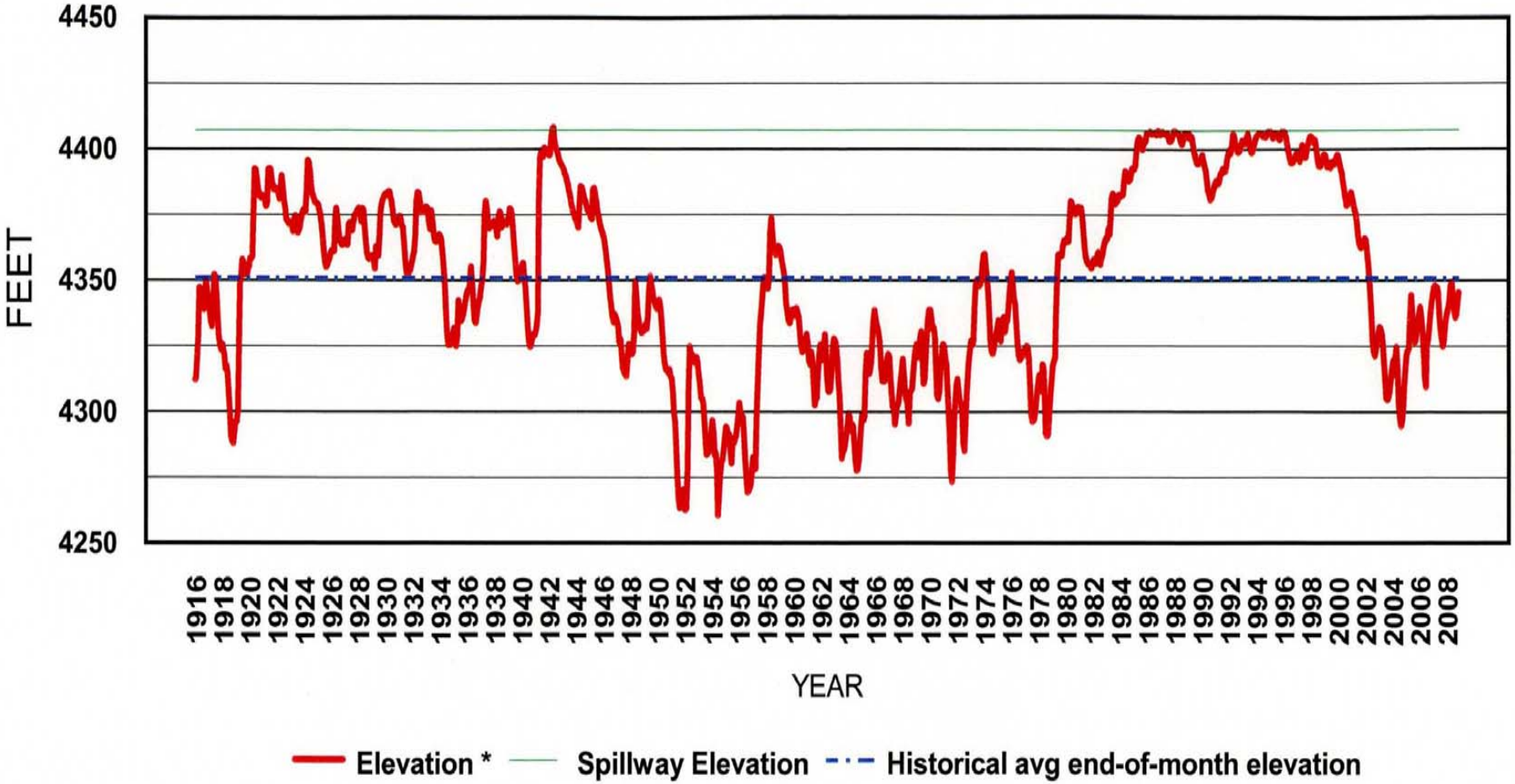
2007 WATER OPERATIONS SUMMARY

ELEPHANT BUTTE RESERVOIR INFLOW	515,050	A-F
ELEPHANT BUTTE RESERVOIR OUTFLOW	642,060	A-F
CABALLO RESERVOIR INFLOW	642,060	A-F
CABALLO RESERVOIR OUTFLOW	636,860	A-F
EBID WATER CHARGES	302,665	A-F
EPCWID#1 WATER CHARGES *	278,252	A-F
CITY OF EL PASO DIVERSIONS	58,792	A-F
HCCRD DIVERSIONS **	82,262	A-F
FT. QUITMAN FLOW ***	63,263	A-F

* Includes City of El Paso diversions.
** System waste and return flows.
*** Includes discharge from Acequia Madre in Mexico.

ELEPHANT BUTTE RESERVOIR

HISTORICAL END-OF-MONTH ELEVATION**

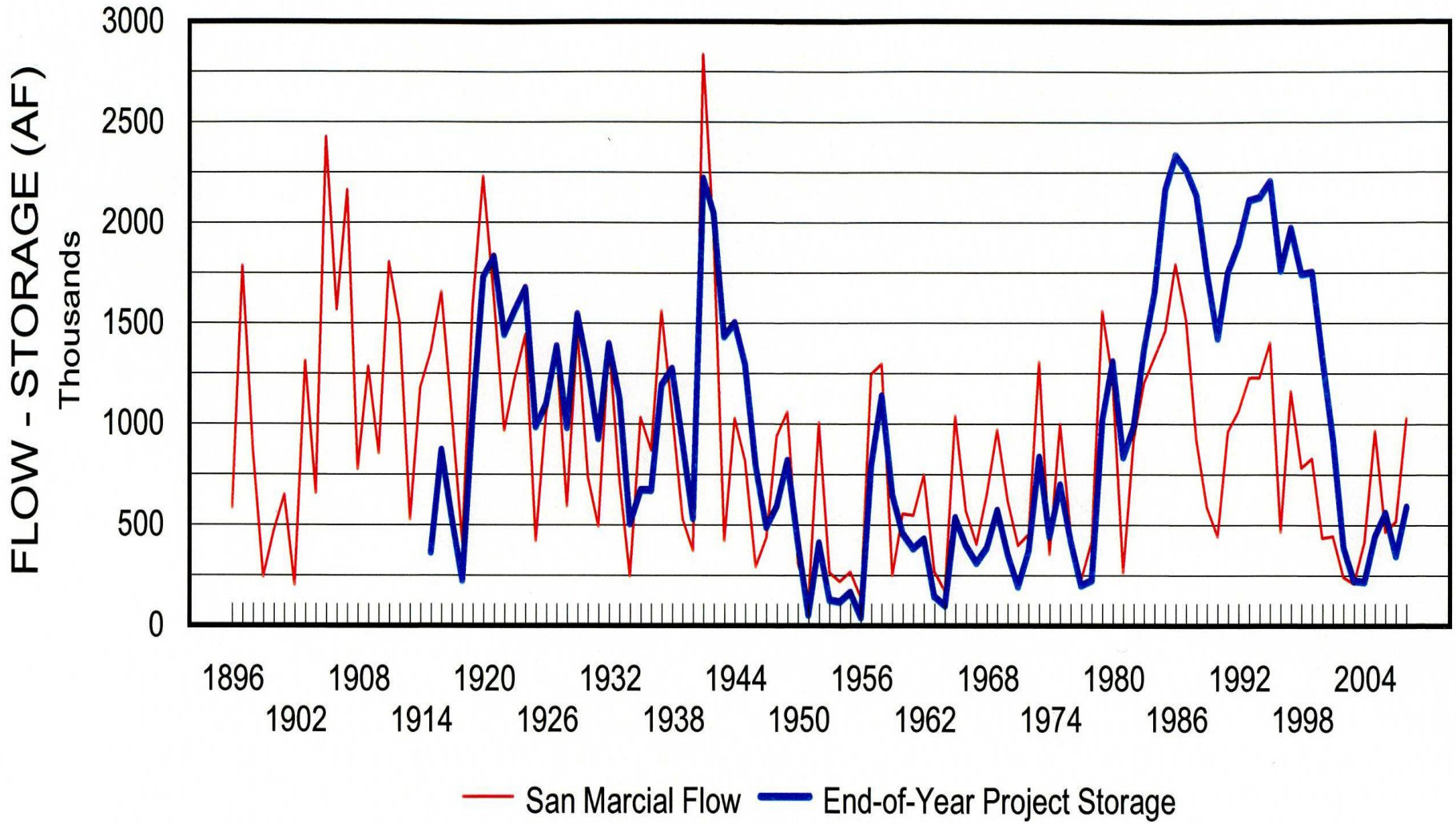


**Data thru May 2008 is actual data; other 2008 data is a projection based on Reclamation's most probable plan.

* BOR project datum. To obtain mean sea level datum, add 43.3 feet

SAN MARCIAL FLOW - RIO GRANDE PROJECT STORAGE

1896 Through 2008*



* End-of-year project storage and San Marcial flow for 2008 is a projection based on Rio Grande Project most probable plan.

STATUS OF RIO GRANDE COMPACT CREDIT WATERS IN ELEPHANT BUTTE RESERVOIR SINCE LAST SPILL FROM RIO GRANDE PROJECT STORAGE *

YEAR	COLORADO (acre-feet)	NEW MEXICO (acre-feet)	
1995	0	0	**SPILL YEAR**
1996	2,400	68,800	
1997	2,900	105,500	
1998	11,500	153,100	
1999	17,700	170,700	
2000	27,000	269,100	
2001	10,100	155,700	
2002	42,800	265,000	
2003	1,200	54,000	
2004	4,400	35,600	
2005	4,600	37,100	
2006	15,500	180,100	
2007	7,200	184,500	

* derived from Rio Grande Compact Commission yearly reports.

2007
RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Rio Grande Compact Article VII Restriction

Compact usable water went above 400K on Nov. 06, 2006
Compact usable water went below 400K on Jan. 01, 2007
Compact usable water went above 400K on Jan. 29, 2007
Compact usable water went below 400K on Jul. 04, 2007

2002 - 2006
RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

Rio Grande Compact Article VII Restriction

Compact Usable Water Below 400,000 AF – July 4, 2002
Compact Usable Water Above 400,000 AF – May 20, 2005
Compact Usable Water Below 400,000 AF – August 26, 2005
Compact Usable Water Above 400,000 AF – December 27, 2005
Compact Usable Water Below 400,000 AF – April 14, 2006
Compact Usable Water Above 400,000 AF – November 06, 2006
Compact Usable Water Below 400,000 AF – January 01, 2007

RECLAMATION

Rio Grande Project Diversion Ratio (Net Diversion Allocation Charges to Release from Storage)

Year	Release	EBID	EPCWID	Mexico	Total	Diversion Ratio
2001	783,822	437,088	299,246	61,038	797,372	1.017287
2002	801,147	403,962	364,847	60,325	829,134	1.034934
2003	364,528	152,731	126,639	26,948	306,318	0.840314
2004	399,519	159,278	131,321	27,614	318,213	0.796490
2005	676,031	344,687	237,684	58,091	640,462	0.947386
2006	432,770	200,227	169,574	28,532	398,333	0.955300
2007	636,136	302,664	278,251	51,779	632,694	0.994589

	Rio Grande Project Diversion Allocations (May 31, 2008 EPCWID)	ac-ft
2	Elephant Butte Reservoir Storage	614,523
3	Caballo Reservoir Storage	46,075
4	Total Rio Grande Project Storage	660,598
5	Estimated Rio Grande Compact Credit Waters	(65,500)
6	Estimated San Juan-Chama Water	(24,340)
7	Water Released from Storage	292,404
8	Total Usable Water Available for Release	863,162
9	Carryover Obligation using Estimated Diversion Ratio	105,600
10	Total Usable Water Available for Current Year Allocation	757,562
11	EBID Allocation Balance (Previous Year)	-
12	EPCWID Allocation Balance (Previous Year)	106,982
13	EBID Estimated Allocation Balance (End-of-Year)	-
14	EPCWID Estimated Allocation Balance (End-of-Year)	106,982
15	Storage for EBID and EPCWID Estimated Allocation Balance (End-of-Year)	105,600
16	Estimated Release of Current Usable Water	757,562
17	Estimated End-of-Year Release for Diversion Ratio	756,176
18	D1 Delivery	523,512
19	Mexico's Current Diversion Allocation	59,411
20	Gross D2 Diversion Allocation	923,497
21	EPCWID ACE Conservation Credit	5,463
22	Net D2 Diversion Allocation for EBID and EPCWID	864,085
23	D2 Diversion Allocation for EPCWID	373,508
24	EPCWID Diversion Allocation (w/o Conservation Credit)	480,490
25	EPCWID Diversion (w/o Conservation Credit or 67/155ths of Row 30)	373,508
26	Diversion Ratio	1.013091
27	Diversion Ratio Adjustment	9,918
28	Sum of Release and Diversion Ratio Adjustment	767,480
29	EBID D2 Diversion Allocation	490,577
30	Difference between EBID Diversion Ratio Allocation and D2 Diversion Allocation	-
31	EBID Diversion Ratio Allocation	329,098
32	EBID Diversion Allocation	329,098
33	Total EBID Diversion Allocation (includes 88/155th of Value in Row 30)	329,098
34	Total EPCWID Allocation (includes Row 21 and 67/155th of Value in Row 30)	480,490
35	Total EBID, EPCWID, and Mexico Allocation	868,999

ELEPHANT BUTTE RESERVOIR

	TOTAL STORAGE	FLOOD RESERVATION POOL
Top of Conservation Storage Pool: (Rio Grande Project Authorization)	2,023,358 AF (ELEV 4407.00 FT)	
Top of Conservation Storage Pool: Winter (October 1 - March 31)	1,998,358 AF (ELEV 4406.30 FT)	25,000 AF (WINTER)
Top of Conservation Storage Pool: Summer (April 1 - September 30)	1,973,358 AF (ELEV 4405.60 FT)	50,000 AF (SUMMER)
Top of City of Albuquerque SJ-C Pool: 1983 Contract for irrig. and domestic	50,000 AF (ELEV 4295.11 FT)	
Top of Federal Recreation Pool: 1974 Public Law 93-493, 88 Stat. 1486	50,000 AF (ELEV 4282.68 FT)	

CABALLO RESERVOIR

		EXCLUSIVE FLOOD CONTROL
Top of Flood Control Pool:	326,672 AF (ELEV 4182.00 FT)	100,000 AF
Top of Conservation Storage Pool:	226,672 AF (ELEV 4172.44 FT)	
Top of Minimum Fishery Pool: Biological Opinion (1991)	25,000 AF (ELEV 4138.24 FT)	

Court Order No. CIV-90-95 HB/WWD:

October 1 - January 31 (each year), storage level will not exceed 50,000 AF (elev 4146.11 ft)

Operation Plan of Caballo Reservoir during 2008:

February 1 - September 30 (2008), storage level will be maintained such that the storage level shall not exceed 57,000 AF (elev 4147.79 ft) nor drop below 10,000 AF (elev 4130.81 ft) from Feb. 1 to Sep. 30

RIO GRANDE PROJECT HISTORICAL ALLOCATION OF PROJECT WATER SUPPLY

WTreers
03/05/2008

YEAR	EO FEB. TOTAL RIO GRANDE PROJECT STORAGE (acre-feet)	SAN MARCIAL SPRING RUNOFF (Mar-Jul) (acre-feet)	INITIAL ALLOTMENT TO PROJECT LANDS (acre-foot/acre)	FINAL ALLOTMENT TO PROJECT LANDS (acre-foot/acre)	INITIAL ALLOTMENT TO PROJECT CANAL HEADINGS (acre-feet)	FINAL ALLOTMENT TO PROJECT CANAL HEADINGS (acre-feet)	EO OCT. TOTAL RIO GRANDE PROJECT STORAGE (acre-feet)	MEXICO DIVERSION AT ACEQUIA MADRE HEADING (acre-feet) *	INITIAL RELEASE DATE FROM CABALLO DAM	CABALLO DAM TOTAL YEARLY RELEASE (acre-feet)
1951	452,730	17,877	1.00	1.75			32,900	33,059	03/06	469,450
1952	103,920	832,160	0.21	2.50			370,950	49,890	03/20	543,975
1953	468,600	143,170	1.00	1.90			99,990	37,760	03/10	528,628
1954	184,460	76,720	0.42	0.50			91,480	10,147	03/20	244,165
1955	169,850	68,920	0.21	0.42			129,700	8,185	03/20	219,157
1956	212,180	59,885	0.33	0.39			31,040	7,864	03/18	246,140
1957	77,130	600,680	0.10	1.17			645,760	23,290	03/20	397,103
1958	857,510	988,030	1.75	**4.00**			1,007,170	60,050	03/01	737,125
1959	1,185,120	72,590	3.00	**3.50**			575,670	60,110	03/02	687,414
1960	713,550	410,900	2.25	**3.25**			405,820	60,320	03/02	705,162
1961	492,870	269,550	1.25	2.45			223,080	48,610	03/10	561,697
1962	486,570	448,250	1.75	**3.25**			269,580	60,057	03/05	651,941
1963	513,170	116,765	1.85	2.00			109,440	39,693	03/05	517,172
1964	194,790	67,930	0.25	0.33			58,670	6,653	03/15	206,085
1965	172,340	598,290	0.17	1.85			340,940	36,658	03/20	505,598
1966	627,430	328,380	1.75	2.50			312,910	49,618	03/05	610,341
1967	454,710	74,090	1.25	1.50			223,340	29,829	02/27	456,517
1968	386,860	238,560	1.00	2.00			277,530	39,677	02/27	505,691
1969	466,970	358,710	1.25	**3.00**			387,410	59,884	02/27	667,669
1970	614,620	257,960	2.00	**3.00**			223,870	60,065	02/23	661,125
1971	435,640	112,837	1.50	1.75			75,540	34,847	02/26	498,375
1972	283,380	77,630	0.60	0.80			258,910	16,077	03/01	260,911
1973	457,960	914,090	1.00	**3.00**			707,340	60,000	03/09	617,461
1974	915,650	95,430	3.00	**3.00**			376,650	60,050	03/02	640,843
1975	507,700	617,850	1.00	**3.00**			534,490	60,052	01/24	580,617
1976	762,230	204,260	2.50	**3.00**			353,910	60,172	01/16	679,676
1977	482,460	43,374	1.00	1.25			140,460	24,824	03/03	416,496
1978	268,220	248,610	0.25	0.75			112,160	14,903	03/10	356,167
1979	328,690	1,148,880	0.67	**3.00**		**790,000**	855,640	60,055	03/08	568,687
1980	1,080,400	861,894	3.00	**3.00**		**790,000**	1,178,400	60,033	01/17	658,686
1981	1,339,860	54,256	3.00	**3.00**	**750,650**	**750,650**	774,380	60,262	02/04	608,166
1982	878,660	548,573	3.00	**3.00**	**790,000**	**790,000**	866,140	59,257	01/27	635,642
1983	1,070,130	920,545	3.00	**3.00**	**790,000**	**790,000**	1,289,750	60,621	02/03	648,386
1984	1,424,200	831,291	3.00	**3.00**	**902,000**	**902,000**	1,515,500	58,588	02/09	653,150
1985	1,747,700	1,133,599			**902,000**	**902,000**	2,121,600	60,276	02/20	677,398
1986	2,322,200	812,686			**902,000**	**902,000**	2,290,800	66,163	04/01	1,396,165
1987	2,336,900	1,003,319			**902,000**	**902,000**	2,168,400	65,866	02/03	1,376,099
1988	2,383,900	419,098			**902,000**	**902,000**	2,060,100	61,935	01/20	838,008
1989	2,151,900	378,144			**890,900**	**890,900**	1,705,300	58,854	02/13	736,866
1990	1,801,000	159,213			**931,841**	**931,841**	1,319,400	58,353	02/12	680,107
1991	1,509,660	656,638			**931,841**	**931,841**	1,580,080	59,242	02/19	625,956
1992	1,830,380	745,950			**931,841**	**931,841**	1,802,720	58,080	01/09	734,982
1993	1,980,230	742,508			**931,841**	**931,841**	1,978,640	63,763	01/12	823,263
1994	2,155,690	852,845			**931,841**	**931,841**	2,003,860	60,167	01/11	893,384
1995	2,203,730	991,736			**931,841**	**931,841**	2,083,050	63,618	01/17	1,096,146
1996	2,263,420	131,980			**931,841**	**931,841**	1,689,550	60,063	01/12	774,335
1997	1,814,910	600,666			**931,841**	**931,841**	1,814,980	59,442	01/21	798,621
1998	2,036,000	447,172			**931,841**	**931,841**	1,636,860	60,628	01/16	808,661
1999	1,803,410	384,225			**931,841**	**931,841**	1,658,810	58,308	01/27	735,467
2000	1,804,980	159,000			**931,841**	**931,841**	1,243,900	60,611	01/20	751,373
2001	1,359,370	241,000			**931,841**	**931,841**	856,910	61,037	02/02	786,549
2002	974,610	61,095			738,139	**931,841**	323,190	60,324	02/19	801,147
2003	456,140	62,029			74,860	317,495	170,490	26,948	03/17	364,528
2004	288,480	240,387			43,667	353,944	128,010	27,613	03/12	398,612
2005	331,000	738,095			138,549	**931,841**	362,060	58,091	03/09	676,031
2006	517,170	92,521			351,560	472,426	436,950	27,112	03/08	434,228
2007	644,990	316,979			369,466	760,391	346,170	51,245	03/07	636,730

bold number means full irrigation supply for Rio Grande Project water users.

* derived from International Boundary & Water Commission (IBWC) - U. S. Section, Yearly Flow Data Publications.